

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: December 3, 2003, 11:48:05 ; Search time 26.3333 Seconds
(without alignments)
58.797 Million cell updates/sec

Title: US-09-912-414-2

Perfect score: 45

Sequence: 1 WVRWHP 6

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 830525 seqs, 258052604 residues

Total number of hits satisfying chosen parameters: 3526

Minimum DB seq length: 0

Maximum DB seq length: 15

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : SPTREMBL 23.*

- 1: sp_archaea.*
- 2: sp_bacteria.*
- 3: sp_fungi.*
- 4: sp_human.*
- 5: sp_invertebrate.*
- 6: sp_mammal.*
- 7: sp_mbc.*
- 8: sp_organalle.*
- 9: sp_phage.*
- 10: sp_plant.*
- 11: sp_rodent.*
- 12: sp_virus.*
- 13: sp_vertebrate.*
- 14: sp_unclassified.*
- 15: sp_virus.*
- 16: sp_bacteriap.*
- 17: sp_archaeap.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	ID	Description
1	28	62.2	9	Q8SHF0	Q8shf0 chamaeleo n
2	24	53.3	8	Q94VF6	Q94vf6 varanus job
3	24	53.3	10	P92632	P92632 eremias gra
4	23	51.1	10	Q9TG41	Q9tg41 ophisaurus
5	22	48.9	8	Q94VJ4	Q94vj4 varanus ben
6	22	48.9	8	P79940	P79940 xenopus lae
7	22	48.9	10	Q9B4X0	Q9b4x0 notophthalm
8	22	48.9	10	Q958L2	Q958l2 rana tempor
9	22	48.9	10	Q958L8	Q958l8 rana catesb
10	22	48.9	10	Q958K6	Q958k6 rana pretio
11	22	48.9	10	Q958K0	Q958k0 rana casc
12	22	48.9	10	Q958L5	Q958l5 rana sylvat
13	22	48.9	10	Q958K3	Q958k3 rana muscos
14	22	48.9	10	Q94NH4	Q94nh4 rana aurora
15	22	48.9	10	Q94VD2	Q94vd2 varanus pan
16	21	46.7	8	Q94VC1	Q94vc1 varanus rud

17	21	46.7	8	8	Q9TD02
18	21	46.7	8	8	Q9T4Y2
19	21	46.7	9	8	Q9T688
20	21	46.7	10	8	Q9T8K7
21	21	46.7	10	8	Q9T8N1
22	21	46.7	10	8	Q79903
23	21	46.7	10	8	Q8W969
24	21	46.7	10	8	Q8WDH8
25	21	46.7	10	8	Q9T8T6
26	21	46.7	10	8	Q9T8L3
27	21	46.7	10	8	P92616
28	21	46.7	10	8	Q9T8G8
29	21	46.7	10	8	Q958K9
30	21	46.7	10	8	Q9TFU9
31	21	46.7	10	8	Q9T8X7
32	21	46.7	10	8	Q79885
33	21	46.7	10	8	Q9T8Q5
34	21	46.7	10	8	P92654
35	21	46.7	10	8	Q9T8L0
36	21	46.7	10	8	Q9T8W8
37	21	46.7	10	8	Q9T8K4
38	21	46.7	10	8	Q9T8M8
39	21	46.7	10	8	Q9T8S1
40	21	46.7	10	8	Q9T8S4
41	21	46.7	10	8	Q92YU4
42	21	46.7	10	8	P92758
43	21	46.7	10	8	Q9T8T9
44	21	46.7	10	8	Q92YT5
45	21	46.7	10	8	Q9T8J8

ALIGNMENTS

RESULT 1

Q8SHF0 ID Q8SHF0 PRELIMINARY; PRT; 9 AA.
AC Q8SHF0;
DT 01-JUN-2002 (TrEMBLrel. 21, Created)
DT 01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
DT 01-JUN-2002 (TrEMBLrel. 21, Last annotation update)
DE Cytochrome c oxidase subunit I (fragment).
GN COI.
OS Chamaeleo namaquensis.
OG Mitochondrion.
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Lepidosauria; Squamata; Iguania; Acrodonta; Chamaeleonidae; Chamaeleo.
RX NCBI_TaxID=179917;
RN [1]
RP SEQUENCE FROM N.A.
RA Townsend T.M., Larson A.L.;
RT "Molecular Phylogenetics and Mitochondrial Genomic Evolution in the Chamaeleonidae (Reptilia, Squamata).";
RL Submitted (NOV-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF448757; AAL90553.1; -.
KW Mitochondrion.
FT NON TER 9 9
SQ SEQUENCE 9 AA; 1205 MW; 358CB72733640733 CRC64;

Query Match 62.2%; Score 28; DB 8; Length 9;
Best Local Similarity 75.0%; Pred. No. 8.3e+05;
Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 WVRW 4
|:|:|
DB 2 WLRW 5

RESULT 2

Q94VF6 ID Q94VF6 PRELIMINARY; PRT; 8 AA.
AC Q94VF6;
DT 01-DEC-2001 (TrEMBLrel. 19, Created)

DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
 DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
 DE Cytochrome c oxidase subunit I (Fragment).
 GN COI.
 OS Varanus jobiensis.
 OG Mitochondrion.
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Lepidosauria; Squamata; Scleroglossa; Anguimorpha; Varanidae; Varanus.
 OX NCBI_TaxID=169843;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Ast J.C.;
 RT "Mitochondrial DNA evidence and evolution in Varanoidea (Squamata).";
 RL Cladistics 17:0-0(2001).
 DR EMBL; AF407507; AAL10075.1; -.
 KW Mitochondrion.
 FT NON_TER 8
 SQ SEQUENCE 8 AA; 1144 MW; EFD729DB436411A6 CRC64;
 Query Match 53.3%; Score 24; DB 8; Length 8;
 Best Local Similarity 75.0%; Pred. No. 8.3e+05;
 Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
 QY 3 RWHF 6
 DB 3 RWYF 6

RESULT 3

ID P92632 PRELIMINARY; PRT; 10 AA.
 AC P92632;
 DT 01-MAY-1997 (TrEMBLrel. 03, Created)
 DT 01-MAY-1997 (TrEMBLrel. 03, Last sequence update)
 DT 01-NOV-1998 (TrEMBLrel. 08, Last annotation update)
 DE Cytochrome c oxidase subunit I (Fragment).
 GN COI.
 OS Eremias grammica.
 OG Mitochondrion.
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Lepidosauria; Squamata; Scleroglossa; Scincomorpha; Lacertoidea;
 OC Lacertidae; Eremias.
 OX NCBI_TaxID=521179;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Macey J.R.; Larson A.; Ananjeva N.B.; Fang Z.; Papenfuss T.J.;
 RT "Two novel gene orders and the role of light-strand replication in
 rearrangement of the vertebrate mitochondrial genome.";
 RL Mol. Biol. Evol. 14:91-104(1997).
 RN [2]
 RP SEQUENCE FROM N.A.
 RA MEDLINE=97153820; PubMed=9000751;
 RA Macey J.R.; Larson A.; Ananjeva N.B.; Papenfuss T.J.;
 RT "Replication slippage may cause parallel evolution in the secondary
 structures of mitochondrial transfer RNAs.";
 RL Mol. Biol. Evol. 14:30-39(1997).
 DR EMBL; U71331; AAB48277.1; -.
 KW Mitochondrion.
 FT NON_TER 10
 SQ SEQUENCE 10 AA; 1288 MW; 5B3580C9D3640057 CRC64;
 Query Match 53.3%; Score 24; DB 8; Length 10;
 Best Local Similarity 60.0%; Pred. No. 7.5e+02;
 Matches 3; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
 QY 2 VRWHF 6
 DB 4 IRWFF 8

RESULT 4

Q9TG41 PRELIMINARY; PRT; 10 AA.
 AC Q9TG41;
 DT 01-MAY-2000 (TrEMBLrel. 13, Created)
 DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
 DT 01-MAY-2000 (TrEMBLrel. 13, Last annotation update)
 DE Cytochrome c oxidase subunit I (Fragment).
 GN COI.
 OS Ophisaurus apodus.
 OG Mitochondrion.
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Lepidosauria; Squamata; Scleroglossa; Anguimorpha; Anguidae;
 OC Ophisaurus.
 OX NCBI_TaxID=102191;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Macey J.R.; Schulte J.A. II; Larson A.; Tuniyev B.S.; Orlov N.;
 RA Papenfuss T.J.;
 RT "Molecular phylogenetics, tRNA evolution, and historical biogeography
 in anguillid lizards and related taxonomic families.";
 RL Mol. Phylogenet. Evol. 12:250-272(1999).
 DR EMBL; AF085623; AAD51559.1; -.
 KW Mitochondrion.
 FT NON_TER 10
 SQ SEQUENCE 10 AA; 1239 MW; 1A3580C7336412C0 CRC64;
 Query Match 51.1%; Score 23; DB 8; Length 10;
 Best Local Similarity 80.0%; Pred. No. 1.1e+03;
 Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 2 VRWHF 6
 DB 4 VRWLF 8

RESULT 5

ID Q94VJ4 PRELIMINARY; PRT; 8 AA.
 AC Q94VJ4;
 DT 01-DEC-2001 (TrEMBLrel. 19, Created)
 DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
 DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
 DE Cytochrome c oxidase subunit I (Fragment).
 GN COI.
 OS Varanus bengalensis nebulosis.
 OG Mitochondrion.
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Lepidosauria; Squamata; Scleroglossa; Anguimorpha; Varanidae; Varanus.
 OX NCBI_TaxID=169827;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Ast J.C.;
 RT "Mitochondrial DNA evidence and evolution in Varanoidea (Squamata).";
 RL Cladistics 17:0-0(2001).
 DR EMBL; AF407492; AAL10031.1; -.
 KW Mitochondrion.
 FT NON_TER 8
 SQ SEQUENCE 8 AA; 1053 MW; E8B5B9C733640056 CRC64;
 Query Match 48.9%; Score 22; DB 8; Length 8;
 Best Local Similarity 60.0%; Pred. No. 8.3e+05;
 Matches 3; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
 QY 2 VRWHF 6
 DB 2 IRWLF 6
 RESULT 6
 P79940 PRELIMINARY; PRT; 8 AA.
 ID P79940
 AC P79940;
 DT 01-MAY-1997 (TrEMBLrel. 03, Created)

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DT 01-MAY-1997 (TrEMBLrel. 03, Last sequence update)
DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
DE XMeisl-4 protein (Fragment).
OS xenopus laevis (African clawed frog).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Mesobatrachia; Pipidae;
OC Xenopodinae; Xenopus.
OX NCBI_TaxID=8355;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=97202105; PubMed=9049632;
RA Steelman S., Moskow J.J., Muzynski K., North C., Druck T.,
RA Montgomery J.C., Huebner K., Dear I.O., Buchberg A.M.;
RT "Identification of a conserved family of Meisl-related homeobox
  genes."
RL Genome Res. 7:142-156(1997).
DR EMBL; U68389; AAB19199.1; -.
DR TRANSFAC; T03410; -.
FT NON_TER 1
SQ SEQUENCE 8 AA; 1187 MW; 278B51F37B11F40B CRC64;

  Query Match 48.9%; Score 22; DB 13; Length 8;
  Best Local Similarity 66.7%; Pred. No. 8.3e+05;
  Matches 2; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 4 WHF 6
DB 5 WHY 7

RESULT 7
Q9B4X0 PRELIMINARY; PRT; 10 AA.
AC Q9B4X0;
DT 01-JUN-2001 (TrEMBLrel. 17, Created)
DT 01-JUN-2001 (TrEMBLrel. 17, Last sequence update)
DT 01-JUN-2001 (TrEMBLrel. 17, Last annotation update)
DE Cytochrome c oxidase subunit 1 (Fragment).
GN COI.
OS Notophthalmus viridescens (Eastern newt) (Triturus viridescens).
OG Mitochondrion.
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Caudata; Salamandroidea; Salamandridae;
OC Notophthalmus.
OX NCBI_TaxID=8316;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=21175761; PubMed=11277635;
RA Weisrock D.W., Macey J.R., Ugurtas I.H., Larson A., Papenfuss T.J.;
RT "Molecular Phylogenetics and Historical Biogeography among
  Salamanders of the 'True' Salamander Clade: Rapid Branching of
  Numerous Highly Divergent Lineages in Mertensiella luschni Associated
  with the Rise of Anatolia."
RL Mol. Phylogenet. Evol. 18:434-448(2001).
DR EMBL; AF296616; AAK30305.1; -.
FT NON_TER 10
SQ SEQUENCE 10 AA; 1298 MW; 03D380C733640050 CRC64;

  Query Match 48.9%; Score 22; DB 8; Length 10;
  Best Local Similarity 60.0%; Pred. No. 1.5e+03;
  Matches 3; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 VRWHF 6
DB 4 IRWLF 8

RESULT 8
Q958L2 PRELIMINARY; PRT; 10 AA.
ID Q958L2
AC Q958L2;
DT 01-DEC-2001 (TrEMBLrel. 19, Created)

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DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
DE Cytochrome c oxidase subunit I (Fragment).
GN COI.
OS Rana temporaria (European common frog).
OG Mitochondrion.
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Neobatrachia; Ranioidea; Ranidae; Rana.
OX NCBI_TaxID=8407;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=21184280; PubMed=11286498;
RA Macey J.R., Strasburg J.L., Brisson J.A., Vredenburg V.T.,
RA Jennings M., Larson A.;
RT "Molecular Phylogenetics of Western North American Frogs of the Rana
  boylii Species Group."
RL Mol. Phylogenet. Evol. 19:131-143(2001).
DR EMBL; AF314018; AAK56874.1; -.
FT NON_TER 10
SQ SEQUENCE 10 AA; 1354 MW; COD380C9D36411A9 CRC64;

  Query Match 48.9%; Score 22; DB 8; Length 10;
  Best Local Similarity 50.0%; Pred. No. 1.5e+03;
  Matches 3; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 VRWHF 6
DB 3 FTRWFF 8

RESULT 9
Q958L8 PRELIMINARY; PRT; 10 AA.
ID Q958L8
AC Q958L8;
DT 01-DEC-2001 (TrEMBLrel. 19, Created)
DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
DE Cytochrome c oxidase subunit I (Fragment).
GN COI.
OS Rana catesbeiana (Bull frog).
OG Mitochondrion.
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Neobatrachia; Ranioidea; Ranidae; Rana.
OX NCBI_TaxID=8400;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=21184280; PubMed=11286498;
RA Macey J.R., Strasburg J.L., Brisson J.A., Vredenburg V.T.,
RA Jennings M., Larson A.;
RT "Molecular Phylogenetics of Western North American Frogs of the Rana
  boylii Species Group."
RL Mol. Phylogenet. Evol. 19:131-143(2001).
DR EMBL; AF314016; AAK56868.1; -.
FT NON_TER 10
SQ SEQUENCE 10 AA; 1354 MW; COD380C9D36411A9 CRC64;

  Query Match 48.9%; Score 22; DB 8; Length 10;
  Best Local Similarity 50.0%; Pred. No. 1.5e+03;
  Matches 3; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 VRWHF 6
DB 3 FTRWFF 8

RESULT 10
Q958K6 PRELIMINARY; PRT; 10 AA.
ID Q958K6
AC Q958K6;
DT 01-DEC-2001 (TrEMBLrel. 19, Created)
DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)

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DT 01-DEC-2001 (TReMBLrel. 19, Last annotation update)
 DE Cytochrome c oxidase subunit I (Fragment).
 GN COI.
 OS Rana pretiosa.
 OG Mitochondrion.
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Amphibia; Batrachia; Anura; Neobatrachia; Ranoidea; Ranidae; Rana.
 OX NCBI_TaxID=69834;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=21184280; PubMed=11286498;
 RA Macey J.R., Strasburg J.L., Brissson J.A., Vredenburg V.T.,
 RA Jennings M., Larson A.;
 RT "Molecular Phylogenetics of Western North American Frogs of the Rana
 RT boylii Species Group."
 RL Mol. Phylogenet. Evol. 19:131-143(2001).
 DR EMBL; AF314020; AAK56880.1; -.
 KW Mitochondrion.
 FT NON_TER 10 10
 SQ SEQUENCE 10 AA; 1354 MW; COD380C9D36411A9 CRC64;
 Query Match 48.9%; Score 22; DB 8; Length 10;
 Best Local Similarity 50.0%; Pred. No. 1.5e+03;
 Matches 3; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
 Qy 1 WVRWHP 6
 Db : || |
 3 FTRWFF 8

RESULT 11
 Q958K0 PRELIMINARY; PRT; 10 AA.
 ID Q958K0
 AC Q958K0;
 DT 01-DEC-2001 (TReMBLrel. 19, Created)
 DT 01-DEC-2001 (TReMBLrel. 19, Last sequence update)
 DT 01-DEC-2001 (TReMBLrel. 19, Last annotation update)
 DE Cytochrome c oxidase subunit I (Fragment).
 GN COI.
 OS Rana cascadae.
 OG Mitochondrion.
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Amphibia; Batrachia; Anura; Neobatrachia; Ranoidea; Ranidae; Rana.
 OX NCBI_TaxID=160497;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=21184280; PubMed=11286498;
 RA Macey J.R., Strasburg J.L., Brissson J.A., Vredenburg V.T.,
 RA Jennings M., Larson A.;
 RT "Molecular Phylogenetics of Western North American Frogs of the Rana
 RT boylii Species Group."
 RL Mol. Phylogenet. Evol. 19:131-143(2001).
 DR EMBL; AF314022; AAK56886.1; -.
 KW Mitochondrion.
 FT NON_TER 10 10
 SQ SEQUENCE 10 AA; 1354 MW; COD380C9D36411A9 CRC64;
 Query Match 48.9%; Score 22; DB 8; Length 10;
 Best Local Similarity 50.0%; Pred. No. 1.5e+03;
 Matches 3; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
 Qy 1 WVRWHP 6
 Db : || |
 3 FTRWFF 8

RESULT 12
 Q958L5 PRELIMINARY; PRT; 10 AA.
 ID Q958L5
 AC Q958L5;
 DT 01-DEC-2001 (TReMBLrel. 19, Created)
 DT 01-DEC-2001 (TReMBLrel. 19, Last sequence update)
 DT 01-DEC-2001 (TReMBLrel. 19, Last annotation update)

DE Cytochrome c oxidase subunit I (Fragment).
 GN COI.
 OS Rana sylvatica (Wood frog).
 OG Mitochondrion.
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Amphibia; Batrachia; Anura; Neobatrachia; Ranoidea; Ranidae; Rana.
 OX NCBI_TaxID=45438;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=21184280; PubMed=11286498;
 RA Macey J.R., Strasburg J.L., Brissson J.A., Vredenburg V.T.,
 RA Jennings M., Larson A.;
 RT "Molecular Phylogenetics of Western North American Frogs of the Rana
 RT boylii Species Group."
 RL Mol. Phylogenet. Evol. 19:131-143(2001).
 DR EMBL; AF314017; AAK56871.1; -.
 KW Mitochondrion.
 FT NON_TER 10 10
 SQ SEQUENCE 10 AA; 1354 MW; COD380C9D36411A9 CRC64;
 Query Match 48.9%; Score 22; DB 8; Length 10;
 Best Local Similarity 50.0%; Pred. No. 1.5e+03;
 Matches 3; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
 Qy 1 WVRWHP 6
 Db : || |
 3 FTRWFF 8

RESULT 13
 Q958K3 PRELIMINARY; PRT; 10 AA.
 ID Q958K3
 AC Q958K3;
 DT 01-DEC-2001 (TReMBLrel. 19, Created)
 DT 01-DEC-2001 (TReMBLrel. 19, Last sequence update)
 DT 01-MAR-2003 (TReMBLrel. 23, Last annotation update)
 DE Cytochrome c oxidase subunit I (Fragment).
 GN COI.
 OS Rana aurora (Red-legged frog).
 OG Mitochondrion.
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Amphibia; Batrachia; Anura; Neobatrachia; Ranoidea; Ranidae; Rana.
 OX NCBI_TaxID=160496;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=21184280; PubMed=11286498;
 RA Macey J.R., Strasburg J.L., Brissson J.A., Vredenburg V.T.,
 RA Jennings M., Larson A.;
 RT "Molecular Phylogenetics of Western North American Frogs of the Rana
 RT boylii Species Group."
 RL Mol. Phylogenet. Evol. 19:131-143(2001).
 DR EMBL; AF314021; AAK56883.1; -.
 KW Mitochondrion.
 FT NON_TER 10 10
 SQ SEQUENCE 10 AA; 1354 MW; COD380C9D36411A9 CRC64;
 Query Match 48.9%; Score 22; DB 8; Length 10;
 Best Local Similarity 50.0%; Pred. No. 1.5e+03;
 Matches 3; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
 Qy 1 WVRWHP 6
 Db : || |
 3 FTRWFF 8

RESULT 14
 Q94NH4 PRELIMINARY; PRT; 10 AA.
 ID Q94NH4
 AC Q94NH4;
 DT 01-DEC-2001 (TReMBLrel. 19, Created)
 DT 01-DEC-2001 (TReMBLrel. 19, Last sequence update)
 DT 01-DEC-2001 (TReMBLrel. 19, Last annotation update)
 DE Cytochrome c oxidase subunit I (Fragment).

XX Synthetic.
 XX WO200044771-A1.
 XX
 XX 03-AUG-2000.
 XX
 XX 26-JAN-2000; 2000WO-GB00227.
 XX
 XX 26-JAN-1999; 99GB-0001710.
 XX
 XX (PROL-) PROLIFIX LTD.
 XX
 XX Mueller R, Kontermann RE, Montigiani S;
 XX WPI; 2000-532806/48.
 XX
 XX Peptides binding to the DNA binding domain of transcription factor E2F
 XX and inhibiting cell cycle progression, useful for the treatment of
 XX cancer
 XX
 XX Example; Page 26; 42pp; English.
 XX
 XX Peptides which bind to the DNA binding domain of transcription
 XX factor E2F and inhibit cell cycle progression may be useful as
 XX research agents to investigate the interaction between E2F and DP-1,
 XX or the activation of transcription by E2F-1/DP-1 heterodimers. They
 XX may also be used for inducing apoptosis and/or cell cycle arrest in
 XX a cell, particularly for treatment of cancer or other proliferative
 XX disorders such as psoriasis and restenosis.
 XX
 XX Sequence 6 AA;
 XX
 XX Query Match 86.7%; Score 39; DB 21; Length 6;
 XX Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 XX Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 XX
 XX QY 1 WVRWH 5
 XX |||||
 XX 1 WVRWH 5
 XX
 XX DB
 XX
 XX RESULT 5
 XX AAB01508
 XX ID AAB01508 standard; peptide; 6 AA.
 XX
 XX AC AAB01508;
 XX
 XX DT 08-NOV-2000 (first entry)
 XX
 XX DE Peptide which binds to transcription factor E2F-1 DNA binding domain.
 XX
 XX KW DNA binding; transcription factor; E2F; E2F-1; cell cycle; DP-1;
 XX activation; transcription; apoptosis; proliferative disorder;
 XX psoriasis; restenosis.
 XX
 XX OS Synthetic.
 XX
 XX FH Key Location/Qualifiers
 XX FT Misc-difference 2 /note= "Any amino acid"
 XX FT Misc-difference 3 /note= "Any amino acid"
 XX
 XX FT
 XX FN WO200044771-A1.
 XX
 XX PD 03-AUG-2000.
 XX
 XX PF 26-JAN-2000; 2000WO-GB00227.
 XX
 XX PR 26-JAN-1999; 99GB-0001710.
 XX
 XX PA (PROL-) PROLIFIX LTD.
 XX
 XX PI Mueller R, Kontermann RE, Montigiani S;
 XX WPI; 2000-532806/48.
 XX
 XX DR Peptides binding to the DNA binding domain of transcription factor E2F
 XX and inhibiting cell cycle progression, useful for the treatment of
 XX cancer
 XX
 XX Claim 4; Page 9; 42pp; English.
 XX
 XX Peptides which bind to the DNA binding domain of transcription
 XX factor E2F and inhibit cell cycle progression may be useful as
 XX research agents to investigate the interaction between E2F and DP-1,
 XX or the activation of transcription by E2F-1/DP-1 heterodimers. They
 XX may also be used for inducing apoptosis and/or cell cycle arrest in
 XX a cell, particularly for treatment of cancer or other proliferative
 XX disorders such as psoriasis and restenosis.

PT and inhibiting cell cycle progression, useful for the treatment of
 PT cancer
 XX
 XX Example; Page 26; 42pp; English.
 XX
 XX Peptides which bind to the DNA binding domain of transcription
 XX factor E2F and inhibit cell cycle progression may be useful as
 XX research agents to investigate the interaction between E2F and DP-1,
 XX or the activation of transcription by E2F-1/DP-1 heterodimers. They
 XX may also be used for inducing apoptosis and/or cell cycle arrest in
 XX a cell, particularly for treatment of cancer or other proliferative
 XX disorders such as psoriasis and restenosis.
 XX
 XX Sequence 6 AA;
 XX
 XX Query Match 77.8%; Score 35; DB 21; Length 6;
 XX Best Local Similarity 83.3%; Pred. No. 9.3e+05;
 XX Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 XX
 XX QY 1 WVRWH 6
 XX |||||
 XX 1 WVRWH 6
 XX
 XX DB
 XX
 XX RESULT 6
 XX AAB01499
 XX ID AAB01499 standard; peptide; 6 AA.
 XX
 XX AC AAB01499;
 XX
 XX DT 08-NOV-2000 (first entry)
 XX
 XX DE Peptide which binds to transcription factor E2F-1 DNA binding domain.
 XX
 XX KW DNA binding; transcription factor; E2F; E2F-1; cell cycle; DP-1;
 XX activation; transcription; apoptosis; proliferative disorder;
 XX psoriasis; restenosis.
 XX
 XX OS Synthetic.
 XX
 XX FH Key Location/Qualifiers
 XX FT Misc-difference 2 /note= "Any amino acid"
 XX FT Misc-difference 3 /note= "Any amino acid"
 XX
 XX FT
 XX FN WO200044771-A1.
 XX
 XX PD 03-AUG-2000.
 XX
 XX PF 26-JAN-2000; 2000WO-GB00227.
 XX
 XX PR 26-JAN-1999; 99GB-0001710.
 XX
 XX PA (PROL-) PROLIFIX LTD.
 XX
 XX PI Mueller R, Kontermann RE, Montigiani S;
 XX WPI; 2000-532806/48.
 XX
 XX DR Peptides binding to the DNA binding domain of transcription factor E2F
 XX and inhibiting cell cycle progression, useful for the treatment of
 XX cancer
 XX
 XX Claim 4; Page 9; 42pp; English.
 XX
 XX Peptides which bind to the DNA binding domain of transcription
 XX factor E2F and inhibit cell cycle progression may be useful as
 XX research agents to investigate the interaction between E2F and DP-1,
 XX or the activation of transcription by E2F-1/DP-1 heterodimers. They
 XX may also be used for inducing apoptosis and/or cell cycle arrest in
 XX a cell, particularly for treatment of cancer or other proliferative
 XX disorders such as psoriasis and restenosis.

XX SQ Sequence 6 AA;

Query Match 75.6%; Score 34; DB 21; Length 6;
Best Local Similarity 66.7%; Pred. No. 9.3e+05;
Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 WVRWHF 6
| | | |
Db 1 WXXWHF 6

RESULT 7
AAR01504
ID AAR01504 standard; peptide; 6 AA.
XX AAR01504;
AC
XX 08-NOV-2000 (first entry)
DT
XX Peptide which binds to transcription factor E2F-1 DNA binding domain.
DE
XX DNA binding; transcription factor; E2F; E2F-1; cell cycle; DP-1;
KW activation; transcription; apoptosis; proliferative disorder;
KW psoriasis; restenosis.
XX
XX Synthetic.
OS
XX WO200044771-A1.
FN
XX 03-AUG-2000.
PD
XX 26-JAN-2000; 2000WO-GB00227.
PF
XX 26-JAN-1999; 99GB-0001710.
PR
XX (PROL-) PROLIFIX LTD.
XX
XX Mueller R, Kontermann RE, Montigiani S;
PI
XX WPI; 2000-532806/48.
DR
XX Peptides binding to the DNA binding domain of transcription factor E2F
PT and inhibiting cell cycle progression, useful for the treatment of
PT cancer
PT
XX Example; Page 26; 42pp; English.
PS
XX Peptides which bind to the DNA binding domain of transcription
CC factor E2F and inhibit cell cycle progression may be useful as
CC research agents to investigate the interaction between E2F and DP-1,
CC or the activation of transcription by E2F-1/DP-1 heterodimers. They
CC may also be used for inducing apoptosis and/or cell cycle arrest in
CC a cell, particularly for treatment of cancer or other proliferative
CC disorders such as psoriasis and restenosis.
XX

XX SQ Sequence 6 AA;

Query Match 75.6%; Score 34; DB 21; Length 6;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 VRWHF 6
| | | |
Db 2 VRWHF 6

RESULT 8
AAR60429
ID AAR60429 standard; peptide; 8 AA.
XX AAR60429;
AC
XX

DT 25-MAR-2003 (updated)
30-MAR-1995 (first entry)
XX

DE Antiproliferative peptide to transplantable human B-cell lymphoma.
XX

XX antiproliferative; transplant; B-cell lymphoma line SUP-B8; Burkitt's;
KW inhibit clonal expansion; induce apoptosis; anti-idiotype; IGM lambda;
KW inhibit cell proliferation; peptidomimetics; cell surface receptor;
KW immunoglobulin superfamily; treatment; neoplasia; identification;
KW induce replication; therapy; clonal anergy; modulate tyrosine kinase.
XX

XX Synthetic.
OS
XX WO9418345-A1.
FN
XX 18-AUG-1994.
PD
XX 04-FEB-1994; 94WO-US01319.
PF
XX 05-FEB-1993; 93US-0014426.
PR
XX 15-NOV-1993; 93US-0153341.
PF
XX (AFFY-) AFFYMAX TECHNOLOGIES NV.
PA (STRD) UNIV LELAND STANFORD JUNIOR.
XX
XX Bhatt RR, Dower WJ, Levy R, Renschler MF;
PI
XX WPI; 1994-279762/34.
DR
XX

XX Identifying anti-proliferative peptide(s) which specifically bind
PT to immunoglobulin super-family species idiotype - esp. to inhibit
PT B-cell lymphoma and leukocytic leukaemia cell proliferation, for
PT anti-idiotype therapy
XX

XX Claim 7; Page 45; 69pp; English.
PS
XX AAR60400-73 are peptide ligands which bind to purified IGM lambda
CC receptor of the human Burkitt's lymphoma cell line SUP-B8. Peptides
CC AAR60414 to AAR60473 were biotinylated and linked to streptavidin.
CC The peptides were identified with the use of filamentous phage
CC libraries displaying random peptides. Corresponding synthetic
CC peptides bound specifically to this Ig receptor, and blocked the
CC binding of an anti-idiotype antibody. The ligands, when conjugated
CC to form dimers or tetramers, induced cell death by apoptosis in
CC vitro at nanomolar concentrations. This effect was associated with
CC the specific stimulation of intracellular protein tyrosine
CC phosphorylation. The peptides of the invention can be used individually,
CC as complexes of cross-linked peptides or can be conjugated to deliver
CC toxins or radionuclides to neoplastic cells bearing the specific Ig
CC receptor.
CC (Updated on 25-MAR-2003 to correct PN field.)
XX

XX SQ Sequence 8 AA;

Query Match 75.6%; Score 34; DB 15; Length 8;
Best Local Similarity 80.0%; Pred. No. 9.3e+05;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 WVRWH 5
| | | |
Db 3 WYRWH 7

RESULT 9
AAR60444
ID AAR60444 standard; peptide; 8 AA.
XX AAR60444;
AC
XX

XX 25-MAR-2003 (updated)
DT 30-MAR-1995 (first entry)
DT
XX Antiproliferative peptide to transplantable human B-cell lymphoma.
DE

XX antiproliferative; transplant; B-cell lymphoma line SUP-B8; Burkitt's;
 KW inhibit clonal expansion; induce apoptosis; anti-idiotype; IGM lambda;
 KW inhibit cell proliferation; peptidomimetics; cell surface receptor;
 KW immunoglobulin superfamily; treatment; neoplasia; identification;
 KW induce replication; therapy; clonal anergy; modulate tyrosine kinase.
 XX Synthetic.
 OS WO9418345-AI.
 XX 18-AUG-1994.
 XX 04-FEB-1994; 94WO-US01319.
 XX 05-FEB-1993; 93US-0014426.
 XX 15-NOV-1993; 93US-0153341.
 XX (AFFY-) AFFYMAX TECHNOLOGIES NV.
 XX (STRD) UNIV LELAND STANFORD JUNIOR.
 XX Bhatt RR, Dower WJ, Levy R, Renschler MF;
 XX WPI; 1994-279762/34.
 XX Identifying anti-proliferative peptide(s) which specifically bind
 PT to immunoglobulin super-family species idiotypic - esp. to inhibit
 PT B-cell lymphoma and leukocytic leukaemia cell proliferation, for
 PT anti-idiotype therapy
 XX Claim 7; Page 45; 69pp; English.
 XX AAR60400-73 are peptide ligands which bind to purified IGM lambda
 CC receptor of the human Burkitt's lymphoma cell line SUP-B8. Peptides
 CC AAR60414 to AAR60473 were biotinylated and linked to streptavidin.
 CC The peptides were identified with the use of filamentous phage
 CC libraries displaying random peptides. Corresponding synthetic
 CC peptides bound specifically to this Ig receptor, and blocked the
 CC binding of an anti-idiotype antibody. The ligands, when conjugated
 CC to form dimers or tetramers, induced cell death by apoptosis in
 CC vitro at nanomolar concentrations. This effect was associated with
 CC the specific stimulation of intracellular protein tyrosine
 CC phosphorylation. The peptides of the invention can be used individually,
 CC as complexes of cross-linked peptides or can be conjugated to deliver
 CC toxins or radionuclides to neoplastic cells bearing the specific Ig
 CC receptor.
 CC (Updated on 25-MAR-2003 to correct PN field.)
 XX Sequence 8 AA;
 SQ Query Match 75.6%; Score 34; DB 15; Length 8;
 Best Local Similarity 80.0%; Pred. No. 9.3e+05;
 Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1 WVRWH 5
 DB 3 WYRWH 7
 RESULT 10
 AAR37389
 ID AAR37389 standard; peptide; 6 AA.
 XX AC
 XX AAR37389;
 XX 07-JUL-1993 (first entry)
 DE Peptide for treating septic shock.
 XX Toxic shock; blood endotoxin removal; serum; diagnostic reagent;
 KW cytokine release control; treatment; pertussis; bacterial meningitis;
 KW HIV related infections; polymyxin B; Group II.
 XX

OS Synthetic.
 XX Key Location/Qualifiers
 FT Region 1..3
 FT Region /note= "repeat region"
 FT Region 4..6
 FT Region /note= "repeat region"
 XX ZA9200943-A.
 XX 25-NOV-1992.
 XX 10-FEB-1992; 92ZA-0000943.
 XX 11-FEB-1991; 91US-0658744.
 XX (PORR/) PORRO M.
 XX Porro M;
 XX WPI; 1993-094304/11.
 XX New peptide for treatment or prevention of toxic shock - comprises
 PT specified sequences of aminoacid(s) and analogs
 PT comprising sequences retro-orientated
 XX Example; Page 5; 39pp; English.
 XX The (Group II) peptide is an example of a generic peptide of formula
 CC R-(Lys/Arg/His - Phe/Tyr/Trp - Leu/Ile/Val)n-R, where n = 1-100
 CC and each R is H, an amino acid residue or a fatty acid residue.
 CC The peptide is useful for treating or preventing septic shock,
 CC mixing with polymyxin B to reduce its toxicity; removing
 CC endotoxins from blood, sera or other fluids (in vivo or in
 CC vitro); controlling release of cytokines induced by endotoxins;
 CC as diagnostic reagents to detect and quantify toxins in blood
 CC or sera; preparing non-toxic antigenic complexes of lipid A or
 CC lipopolysaccharide (LPS); and for treating pertussis, bacterial
 CC meningitis and HIV-related infections. The usual dose is 10-100
 CC ug/kg/day, given parenterally. It binds to the same sites as
 CC polymyxin B, i.e. it inhibits all the toxic effects of lipid A. It
 CC has no antibiotic activity; does not lyse erythrocytes; has no
 CC toxicity in mice when injected at 50mg/kg and is relatively unstable
 CC against proteases.
 XX Sequence 6 AA;
 SQ Query Match 68.9%; Score 31; DB 14; Length 6;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 WVRW 4
 DB 2 WVRW 5
 RESULT 11
 AAW28912
 ID AAW28912 standard; peptide; 6 AA.
 XX AC
 XX AAW28912;
 XX 20-JAN-1998 (first entry)
 DE Opioid peptide.
 XX enkephalin; mu-opioid receptor ligand; agonist; antagonist.
 XX Synthetic.
 XX Key Location/Qualifiers
 FT Modified-site 1
 FT /note= "N-acetyl-Arg"

FT Modified-site 6 /note= "the C-terminal is in amide form"
 FT US5641861-A.
 PN 24-JUN-1997.
 PD 07-JUN-1995; 95US-0487006.
 PF 07-JUN-1995; 95US-0487006.
 PR (TORR-) TORREY PINES INST MOLECULAR STUDIES.
 PA Dooley CT, Houghten RA;
 PI WPI; 1997-340994/31.
 XX New opioid peptides which bind mu receptors specifically - have
 PT agonist or antagonist activity and are used for study and
 PT localisation of mu receptors and to treat peripheral side effects of
 PT morphine etc.
 XX Disclosure; Column 8; 92pp; English.
 PS The patent discloses the following new peptides, which are opioids which
 CC bind specifically to the mu receptor: Ac-Phe-Arg-Trp-Trp-Tyr-Xaa-NH2 (1);
 CC Ac-Arg-Trp-Ile-Gly-Trp-Xaa-NH2 (2); Trp-Trp-Pro-Lys-His-Xaa-NH2 (3);
 CC Trp-Trp-Pro-Xaa1-NH2 (4); Tyr-Pro-Phe-Gly-Phe-Xaa-NH2 (5);
 CC D-Ile-D-Wet-D-Ser-D-Trp-D-Trp-(Gly)n-Xaa2-NH2 (6);
 CC D-Ile-D-Wet-D-Thr-D-Trp-Gly-Xaa2-NH2 (7); Tyr-Al-B2-C3-NH2 (214);
 CC Pm and red ((Me)x(H)Y-Tyr-(NMe)z-Tyr-(Xaa3)z-NH2) (221); and
 CC Trp-Trp-Pro-D4-(His)z-(Xaa)z-NH2 (222); where Xaa = any natural amino
 CC acid; Xaa1 = Lys or Arg; n and z = 0 or 1; Xaa2 = Gly or the D form of
 CC any naturally occurring amino acid; Al = D-norvaline or D-norleucine;
 CC B2 = Gly, Phe or Trp; C3 = Trp or naphthylalanine; x and y = 0-2, but
 CC not over 2 in total; Xaa3 = Phe, Dphe or benzylamino; D4 = Lys or Arg;
 CC Pm and red indicate permethylation and reduction of all CO in peptide
 CC links to methylene. These new compounds are useful: (i) for in vitro
 CC assay and study of opiate receptor subtypes, particularly mu receptors
 CC in the brain; (ii) for in vivo localisation of receptor subtypes; and
 CC (iii) therapeutically to block the peripheral effects (e.g. constipation
 CC and pruritus) of centrally acting pain killers such as morphine.
 CC They are very selective for the mu opioid receptor, over binding to the
 CC delta and kappa receptor subtypes.
 CC The present sequence is a specific example of a peptide (2).
 XX SQ Sequence 6 AA;

Query Match 68.9%; Score 31; DB 18; Length 6;
 Best Local Similarity 60.0%; Pred. No. 9.3e+05;
 Matches 3; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 WVRWH 5
 Db 2 WIGWH 6

RESULT 12
 AAR93770
 ID AAR93770 standard; Protein; 6 AA.
 XX AAR93770;
 AC AAR93770;
 XX 23-SEP-1997 (first entry)
 DT New peptide which acts as mu-opioid receptor ligand.
 DE mu-receptor; opioid; opiate; agonist; antagonist; diagnosis;
 KW analgesic.
 XX Synthetic.
 OS Key Location/Qualifiers
 FH Key Location/Qualifiers

FT Modified-site 1 /note= "N-acetyl-Arg"
 FT Misc-difference 6 /note= "this residue is in C-terminal amide form"
 FT WO9640208-A1.
 PN 19-DEC-1996.
 PD 06-JUN-1996; 96WO-US09321.
 PF 07-JUN-1995; 95US-0476438.
 PR (TORR-) TORREY PINES INST MOLECULAR STUDIES.
 PA Dooley CT, Houghten RA;
 PI WPI; 1997-051895/05.
 XX New mu opioid receptor binding ligand peptide(s) - useful for
 PT in-vitro and in-vivo diagnosis, as analgesics, and for blocking
 PT peripheral effects of centrally acting drugs, e.g. morphine
 XX Disclosure; Page 19; 57pp; English.
 PS The patent discloses eight new groups of opioid peptides which bind
 CC to the mu-receptor to act as agonists or antagonists. The peptides
 CC can be used for in-vitro assays to study opiate receptor subtypes
 CC (especially the mu type) in brain or other tissue samples; and for
 CC in-vivo diagnosis to localise opioid subtypes. The peptides are also
 CC useful as drugs to treat pathologies associated with other compounds
 CC which interact with the opioid receptor system. Therefore they can be
 CC used in medicaments for treating pathologies associated with the mu
 CC receptor and as analgesics. They can be used therapeutically to block
 CC the peripheral effects of centrally acting pain killers, e.g. to
 CC prevent side effects such as constipation and pruritis associated
 CC with morphine. The present sequence represents a specific example
 CC of one of the new groups of peptides, of formula
 CC Ac-Arg-Trp-Ile-Gly-Trp-Xaa-NH2 where Xaa = a naturally occurring
 CC amino acid.
 XX SQ Sequence 6 AA;

Query Match 68.9%; Score 31; DB 18; Length 6;
 Best Local Similarity 60.0%; Pred. No. 9.3e+05;
 Matches 3; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 WVRWH 5
 Db 2 WIGWH 6

RESULT 13
 AAY23019
 ID AAY23019 standard; peptide; 6 AA.
 XX AAY23019;
 AC AAY23019;
 XX 23-AUG-1999 (first entry)
 DT Opioid peptide which inhibits binding of enkephalin.
 DE Opioid peptide; ligand binding; opioid receptor;
 KW micro-selective opioid peptide; enkephalin; opioid receptor system;
 KW blocking; peripheral effect; centrally acting pain killer; morphine.
 XX Synthetic.
 OS Key Location/Qualifiers
 FH Key Location/Qualifiers
 FT Modified-site 1 /note= "acetylated"
 FT Modified-site 6 /note= "amidated"

XX PN US5919897-A.
 XX PD 06-JUL-1999.
 XX PF 07-JUN-1995; 95US-0488659.
 XX PR 07-JUN-1995; 95US-0488659.
 XX PA (TORR-) TORREY PINES INST MOLECULAR STUDIES.
 XX PI Dooley CT, Houghten RA;
 XX XX WPI; 1999-394647/33.
 XX XX New opioid peptides useful for blocking the peripheral effects of
 PT centrally acting pain killers such as morphine
 PT
 XX Example 1; Column 8; 92pp; English.
 XX The specification describes opioid peptides, in which each of the
 CC N atoms in the peptide backbone between respective amino acids is
 CC modified by permethylation, perallylation, perethylation, perbenzoylation
 CC and pernapthylolation. The peptides inhibit ligand binding to an opioid
 CC receptor. Specifically, the peptides inhibit the micro-selective
 CC opioid peptide enkephalin. The peptides can be used in vivo
 CC diagnostically to localize opioid receptor subtypes. They can be used
 CC to treat pathologies associated with other compounds which interact with
 CC the opioid receptor system. The peptides are especially useful for
 CC blocking the peripheral effects of centrally acting pain killers such
 CC as morphine. AAY23005-Y23024 represent opioid peptides of the invention,
 CC and are derived from the general sequence given in AAY23004.
 XX
 XX Sequence 6 AA;
 SQ
 Query Match 58.9%; Score 31; DB 20; Length 6;
 Best Local Similarity 60.0%; Pred. No. 9.3e+05;
 Matches 3; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
 QY 1 WVRWH 5
 Db 2 WIGWH 6
 RESULT 14
 AAB01507
 ID AAB01507 standard; peptide; 6 AA.
 XX
 XX AAB01507;
 AC
 XX 08-NOV-2000 (first entry)
 DT
 DE Peptide which binds to transcription factor E2F-1 DNA binding domain.
 XX
 KW DNA binding; transcription factor; E2F; E2F-1; cell cycle; DP-1;
 KW activation; transcription; apoptosis; proliferative disorder;
 KW psoriasis; restenosis.
 XX
 OS Synthetic.
 XX
 XX WO200044771-A1.
 PN
 XX 03-AUG-2000.
 PD
 XX 26-JAN-2000; 2000WO-GB00227.
 PF
 XX 26-JAN-1999; 99GB-0001710.
 PR
 XX (PROL-) PROLIFIX LTD.
 PA
 XX Mueller R, Kontermann RE, Montigiani S;
 PI
 XX WPI; 2000-532806/48.
 DR

XX PT Peptides binding to the DNA binding domain of transcription factor E2F
 PT and inhibiting cell cycle progression, useful for the treatment of
 PT cancer
 XX
 XX Example; Page 26; 42pp; English.
 XX
 CC Peptides which bind to the DNA binding domain of transcription
 CC factor E2F and inhibit cell cycle progression may be useful as
 CC research agents to investigate the interaction between E2F and DP-1,
 CC or the activation of transcription by E2F-1/DP-1 heterodimers. They
 CC may also be used for inducing apoptosis and/or cell cycle arrest in
 CC a cell, particularly for treatment of cancer or other proliferative
 CC disorders such as psoriasis and restenosis.
 XX
 XX Sequence 6 AA;
 SQ
 Query Match 68.9%; Score 31; DB 21; Length 6;
 Best Local Similarity 83.3%; Pred. No. 9.3e+05;
 Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1 WVRWHF 6
 Db 1 WVRWHF 6
 RESULT 15
 AAM45777
 ID AAM45777 standard; Peptide; 7 AA.
 XX
 AC AAM45777;
 XX
 XX 25-OCT-2001 (first entry)
 DT
 DE H11 binding site consensus conforming peptide (CCP) #2048.
 XX
 KW Antigen-binding; tumour; diagnosis; stress protein-peptide complex; SPPC;
 KW immunogenically cross-reactive; cancer; immunogenic cancer cell;
 KW cytostatic; vaccine; tumour-specific immunogenic response inducer;
 KW astrocytoma; fibrosarcoma; myxosarcoma; liposarcoma; oligodendroglioma;
 KW ependymoma; medulloblastoma; primitive neural ectodermal tumour.
 XX
 OS Homo sapiens.
 OS Synthetic.
 XX
 XX CA2290722-A1.
 PN
 XX 08-JUN-2001.
 PD
 XX 08-DEC-1999; 99CA-2290722.
 PF
 XX 08-DEC-1999; 99CA-2290722.
 PR
 XX (NOVO-) NOVOPHARM BIOTECH INC.
 PA
 XX Kaplan HA, Maiti PK, Fast DG, Herman W, Dan MD, Lewis KE;
 PI Entwistle JM, MacDonald GC;
 XX
 XX WPI; 2001-425937/46.
 DR
 XX Composition useful for treating and diagnosing cancer, comprises stress
 PT protein-peptide complexes associated with tumor, and isolated
 PT antigen-binding fragments of an antibody that binds specifically to the
 PT complex
 XX
 XX Example 4; Page 108; 154pp; English.
 XX
 CC The present invention describes a composition (I) comprising stress
 CC protein-peptide complexes (SPPC) associated with tumours that is
 CC specifically immunogenically cross-reactive with cell surface-associated
 CC SPPCs specific to target cancer (TC). Also described is an isolated
 CC antigen-binding fragment of an antibody that binds specifically to SPPCs
 CC or a population of different SPPCs consisting of immunogenic cancer cell

CC surface-associated SPCC of TC. (I) has cytostatic activity and can be used in vaccine production and as a tumour-specific immunogenic response inducer. (I) is useful for treating 71 types of cancers or tumours in a subject, such as astrocytoma, fibrosarcoma, myxosarcoma, liposarcoma, oligodendroglioma, ependymoma, medulloblastoma, and primitive neural ectodermal tumour (PNET). (I) is useful as cancer immunogen including vaccines. (I) is useful for diagnostic and palliative use, for detecting or imaging cancer cells, and to monitor the course of amelioration of malignancy in an individual. AAM43707 to AAM47109 represent peptides which are used in the exemplification of the present invention.

XX Sequence 7 AA;

Query Match 68.9%; Score 31; DB 22; Length 7;
Best Local Similarity 66.7%; Pred. No. 9.3e+05;
Matches 4; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 WVRWHF 6
| | | |
DB 1 WVRWNF 6

RESULT 16

AAR86140
ID AAR86140 standard; peptide; 10 AA.

XX AAR86140;

DT 26-JUN-1996 (first entry)

DE Anti-ELAM-1 binding peptide #117.

KW Peptide mimetic; endothelial leukocyte adhesion molecule; ELAM; selectin; receptor; leukocyte; vascular wall; endothelium; extravasation;
KW inflammation; sialyl Lewis; cell surface glycoprotein; HL60 cell.

XX Synthetic.

XX WO9531210-A1.

XX 23-NOV-1995.

XX 11-MAY-1995; 95WO-US06315.

XX 11-MAY-1994; 94US-0241054.

XX (AFFY-) AFFYMAX TECHNOLOGIES NV.

XX Barrett RW, Cwirila SE, Dower WJ, Koller KJ, Lee J;

PI Martens CL, Ruhland-fritsch B;

XX WPI; 1996-010687/01.

XX New peptide(s) that bind to endothelial leukocyte adhesion molecule
PT 1 - useful for treating inflammation and other E-selectin mediated diseases

PS Disclosure; Page 17; 85pp; English.

XX Peptides AAR86024-R86236 are examples of peptides and their mimetics that bind to endothelial leukocyte adhesion molecule (ELAM)-1. This molecule is a member of the selectin family of receptors and is involved in binding of leukocytes to the vascular endothelial wall prior to extravasation of the leukocyte, e.g. to a site of inflammation.

XX The peptides bind pref. to E-selectin but may also bind L- or P-selectin, and can be used to treat conditions mediated by E-selectin, e.g. inflammatory conditions. The peptides have strong affinity for the selectin receptors and inhibit the binding of the sialyl Lewis (SLe-x) part of cell surface glycoproteins to E-selectin. The peptide are small, generally less than 2 kD, have an IC50 of up to 100 micromole against binding of HL60 cells to ELAM-1, have one or more peptide linkages replaced by CH2OC(O)NR, phosphonate, CH2SO2NR, CH2NR, CON(R6), or NHCONH linkages where R = H or a lower alkyl and R6 = a lower alkyl.

CC The peptides may also have substituted N- and C-termini e.g. succinimido, N-benzoyloxycarbonyl or N-lower alkyl cpds.

XX Sequence 10 AA;

Query Match 68.9%; Score 31; DB 17; Length 10;
Best Local Similarity 100.0%; Pred. No. 56;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WVRW 4
| | | |
DB 6 WVRW 9

RESULT 17

AAR86145
ID AAR86145 standard; peptide; 10 AA.

XX AAR86145;

DT 26-JUN-1996 (first entry)

DE Anti-ELAM-1 binding peptide #117.

KW Peptide mimetic; endothelial leukocyte adhesion molecule; ELAM; selectin; receptor; leukocyte; vascular wall; endothelium; extravasation;
KW inflammation; sialyl Lewis; cell surface glycoprotein; HL60 cell.

XX Synthetic.

XX Key Location/Qualifiers

FT Modified-site 10

FT /note= "contain amidated C-terminus"

XX WO9531210-A1.

XX 23-NOV-1995.

XX 11-MAY-1995; 95WO-US06315.

XX 11-MAY-1994; 94US-0241054.

XX (AFFY-) AFFYMAX TECHNOLOGIES NV.

XX Barrett RW, Cwirila SE, Dower WJ, Koller KJ, Lee J;

PI Martens CL, Ruhland-fritsch B;

XX WPI; 1996-010687/01.

XX New peptide(s) that bind to endothelial leukocyte adhesion molecule
PT 1 - useful for treating inflammation and other E-selectin mediated diseases

PS Disclosure; Page 17; 85pp; English.

XX Peptides AAR86024-R86236 are examples of peptides and their mimetics that bind to endothelial leukocyte adhesion molecule (ELAM)-1. This molecule is a member of the selectin family of receptors and is involved in binding of leukocytes to the vascular endothelial wall prior to extravasation of the leukocyte, e.g. to a site of inflammation.

XX The peptides bind pref. to E-selectin but may also bind L- or P-selectin, and can be used to treat conditions mediated by E-selectin, e.g. inflammatory conditions. The peptides have strong affinity for the selectin receptors and inhibit the binding of the sialyl Lewis (SLe-x) part of cell surface glycoproteins to E-selectin. The peptide are small, generally less than 2 kD, have an IC50 of up to 100 micromole against binding of HL60 cells to ELAM-1, have one or more peptide linkages replaced by CH2OC(O)NR, phosphonate, CH2SO2NR, CH2NR, CON(R6), or NHCONH linkages where R = H or a lower alkyl and R6 = a lower alkyl.

XX The peptides may also have substituted N- and C-termini e.g. succinimido, N-benzoyloxycarbonyl or N-lower alkyl cpds.

XX Sequence 10 AA;

SQ

Query Match 68.9%; Score 31; DB 17; Length 10;
Best Local Similarity 100.0%; Pred. No. 56;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 WVRW 4
DB 6 WVRW 9

RESULT 18

AAW63964
ID AAR86146 standard; peptide; 10 AA.

XX AC
XX AAR86146;

DT 26-JUN-1996 (first entry)

XX DE Anti-ELAM-1 binding peptide #123.

XX KW Peptide mimetic; endothelial leukocyte adhesion molecule; ELAM; selectin;
KW receptor; leukocyte; vascular wall; endothelium; extravasation;
KW inflammation; sialyl Lewis; cell surface glycoprotein; HL60 cell.

XX OS Synthetic.

XX PN WO9531210-A1.

XX PD 23-NOV-1995.

XX PF 11-MAY-1995; 95WO-US06315.

XX PR 11-MAY-1994; 94US-0241054.

XX PA (APFY-) AFFYMAX TECHNOLOGIES NV.

XX PI Barrett RW, Cwirla SE, Dower WJ, Koller KJ, Lee J;

XX PI Martens CL, Ruhland-fritsch B;

XX DR WPI; 1996-010687/01.

XX PT New peptide(s) that bind to endothelial leukocyte adhesion molecule
PT 1 - useful for treating inflammation and other E-selectin mediated
PT diseases

XX PS Disclosure; Page 17; 85pp; English.

XX CC Peptides AAR86024-R86236 are examples of peptides and their mimetics
CC that bind to endothelial leukocyte adhesion molecule (ELAM)-1. This
CC molecule is a member of the selectin family of receptors and is involved
CC in binding of leukocytes to the vascular endothelial wall prior to
CC extravasation of the leukocyte, e.g. to a site of inflammation.
CC The peptides bind pref. to E-selectin but may also bind L- or
CC F-selectin, and can be used to treat conditions mediated by E-selectin,
CC e.g. inflammatory conditions. The peptides have strong affinity for the
CC selectin receptors and inhibit the binding of the sialyl Lewis (SLe-x)
CC part of cell surface glycoproteins to E-selectin. The peptide are
CC small, generally less than 2 kD, have an IC50 of up to 100 micromole
CC against binding of HL60 cells to ELAM-1, have one or more peptide
CC linkages replaced by CH2OC(O)NR, phosphonate, CH2SO2NR, CH2NR, CON(R6),
CC or NHCONH linkages where R = H or a lower alkyl and R6 = a lower alkyl.
CC The peptides may also have substituted N- and C-termini e.g.
CC succinimido, N-benzoyloxycarbonyl or N-lower alkyl cpds.

XX SQ Sequence 10 AA;

Query Match 68.9%; Score 31; DB 17; Length 10;
Best Local Similarity 100.0%; Pred. No. 56;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 WVRW 4
DB 6 WVRW 9

RESULT 19

AAW63963
ID AAW63963 standard; peptide; 10 AA.

XX AC AAW63963;

XX DT 25-MAR-2003 (updated)

DT 02-OCT-1998 (first entry)

XX DE ELAM-1 peptide mimetic #118.

XX KW Endothelial leukocyte adhesion molecule 1; ELAM-1; inflammation;
XX selectin; diagnosis; mimetic.

XX OS Synthetic.

XX FH Key Location/Qualifiers

FT Modified-site 10
FT /note= "C-terminal Met is amidated"

XX PN US5728802-A.

XX PD 17-MAR-1998.

XX PF 12-MAY-1995; 95US-0439817.

XX PR 12-MAY-1995; 95US-0439817.

XX PR 06-MAY-1992; 92US-0881395.

XX PR 05-MAY-1993; 93US-0057295.

XX PR 11-MAY-1994; 94US-0241054.

XX PA (APFY-) AFFYMAX TECHNOLOGIES NV.

XX PI Barrett RW, Cwirla SE, Dower WJ, Koller KJ, Lee J;

XX PI Martens CL, Ruhland B;

XX DR WPI; 1998-249882/22.

XX PT Peptide(s) or their mimetic(s) that bind to E-selectin - useful for,
PT e.g. treating conditions mediated by E-selectin such as inflammatory
PT condition(s)

XX PS Example 2; Column 93-94; 84pp; English.

XX CC AAW63846-W64054 are peptides and peptide mimetics that bind selectins
CC including endothelial leukocyte adhesion molecule 1 (ELAM-1) and can be
CC used for blocking adhesion of leukocytes to the selectins. The peptides
CC have applications for the treatment of conditions mediated by
CC E-selectin, e.g. inflammatory conditions. They can also be used for
CC diagnostic purposes, e.g. for identifying the vascular site of E-selectin
CC in vivo or can be coupled to anti-inflammatory or other drugs.
CC (Updated on 25-MAR-2003 to correct PF field.)

XX SQ Sequence 10 AA;

Query Match 68.9%; Score 31; DB 19; Length 10;

Best Local Similarity 100.0%; Pred. No. 56;

Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 WVRW 4

DB 6 WVRW 9

RESULT 20

AAW63964
ID AAW63964 standard; peptide; 10 AA.

XX AC AAW63964;

XX DT 25-MAR-2003 (updated)

DT 02-OCT-1998 (first entry)
 XX ELAM-1 peptide mimetic #119.
 DE Endothelial leukocyte adhesion molecule 1; ELAM-1; inflammation;
 XX selectin; diagnosis; mimetic.
 KW Synthetic.
 XX US5728802-A.
 PN 17-MAR-1998.
 XX 12-MAY-1995; 95US-0439817.
 XX 12-MAY-1995; 95US-0439817.
 PR 06-MAY-1992; 92US-0881395.
 PR 05-MAY-1993; 93US-0057295.
 PR 11-MAY-1994; 94US-0241054.
 XX (AFFY-) AFFYMAX TECHNOLOGIES NV.
 PA Barrett RW, Cwirla SE, Dower WJ, Koller KJ, Lee J;
 PI Martens CL, Ruhland B;
 PI WPI; 1998-249882/22.
 DR Peptide(s) or their mimetic(s) that bind to E-selectin - useful for,
 XX e.g. treating conditions mediated by E-selectin such as inflammatory
 PT condition(s)
 PT Example 2; Column 93-94; 84pp; English.
 PS AAW63846-W64054 are peptides and peptide mimetics that bind selectins
 XX including endothelial leukocyte adhesion molecule 1 (ELAM-1) and can be
 CC used for blocking adhesion of leukocytes to the selectins. The peptides
 CC have applications for the treatment of conditions mediated by
 CC E-selectin, e.g. inflammatory conditions. They can also be used for
 CC diagnostic purposes, e.g. for identifying the vascular site of E-selectin
 CC in vivo or can be coupled to anti-inflammatory or other drugs.
 CC (Updated on 25-MAR-2003 to correct PF field.)
 XX Query Match 68.9%; Score 31; DB 19; Length 10;
 XX Best Local Similarity 100.0%; Pred. No. 56;
 PS Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 XX Sequence 10 AA;
 QY 1 WVRW 4
 DB ||||
 6 WVRW 9
 RESULT 21
 AAW63958
 ID AAW63958 standard; peptide; 10 AA.
 AC AAW63958;
 XX 25-MAR-2003 (updated)
 DT 02-OCT-1998 (first entry)
 XX ELAM-1 peptide mimetic #113.
 DE Endothelial leukocyte adhesion molecule 1; ELAM-1; inflammation;
 KW selectin; diagnosis; mimetic.
 XX Synthetic.
 OS US5728802-A.
 PN 17-MAR-1998.
 XX 12-MAY-1995; 95US-0439817.
 XX 12-MAY-1995; 95US-0439817.
 PR 06-MAY-1992; 92US-0881395.
 PR 05-MAY-1993; 93US-0057295.
 PR 11-MAY-1994; 94US-0241054.
 XX (AFFY-) AFFYMAX TECHNOLOGIES NV.
 PA Barrett RW, Cwirla SE, Dower WJ, Koller KJ, Lee J;
 PI Martens CL, Ruhland B;
 PI WPI; 1998-249882/22.
 DR Peptide(s) or their mimetic(s) that bind to E-selectin - useful for,
 XX e.g. treating conditions mediated by E-selectin such as inflammatory
 PT condition(s)
 PT Example 2; Column 93-94; 84pp; English.
 PS AAW63846-W64054 are peptides and peptide mimetics that bind selectins
 XX including endothelial leukocyte adhesion molecule 1 (ELAM-1) and can be
 CC used for blocking adhesion of leukocytes to the selectins. The peptides
 CC have applications for the treatment of conditions mediated by
 CC E-selectin, e.g. inflammatory conditions. They can also be used for
 CC diagnostic purposes, e.g. for identifying the vascular site of E-selectin
 CC in vivo or can be coupled to anti-inflammatory or other drugs.
 CC (Updated on 25-MAR-2003 to correct PF field.)
 XX Query Match 68.9%; Score 31; DB 19; Length 10;
 XX Best Local Similarity 100.0%; Pred. No. 56;
 PS Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 XX Sequence 10 AA;
 QY 1 WVRW 4
 DB ||||
 6 WVRW 9

PF 12-MAY-1995; 95US-0439817.
 XX 12-MAY-1995; 95US-0439817.
 PR 06-MAY-1992; 92US-0881395.
 PR 05-MAY-1993; 93US-0057295.
 PR 11-MAY-1994; 94US-0241054.
 XX (AFFY-) AFFYMAX TECHNOLOGIES NV.
 PA Barrett RW, Cwirla SE, Dower WJ, Koller KJ, Lee J;
 PI Martens CL, Ruhland B;
 PI WPI; 1998-249882/22.
 DR Peptide(s) or their mimetic(s) that bind to E-selectin - useful for,
 XX e.g. treating conditions mediated by E-selectin such as inflammatory
 PT condition(s)
 PT Example 2; Column 91-92; 84pp; English.
 PS AAW63846-W64054 are peptides and peptide mimetics that bind selectins
 XX including endothelial leukocyte adhesion molecule 1 (ELAM-1) and can be
 CC used for blocking adhesion of leukocytes to the selectins. The peptides
 CC have applications for the treatment of conditions mediated by
 CC E-selectin, e.g. inflammatory conditions. They can also be used for
 CC diagnostic purposes, e.g. for identifying the vascular site of E-selectin
 CC in vivo or can be coupled to anti-inflammatory or other drugs.
 CC (Updated on 25-MAR-2003 to correct PF field.)
 XX Query Match 68.9%; Score 31; DB 19; Length 10;
 XX Best Local Similarity 100.0%; Pred. No. 56;
 PS Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 XX Sequence 10 AA;
 QY 1 WVRW 4
 DB ||||
 6 WVRW 9
 RESULT 22
 AAR37390
 ID AAR37390 standard; peptide; 6 AA.
 AC AAR37390;
 XX 07-JUL-1993 (first entry)
 DT Peptide for treating septic shock.
 XX Toxic shock; blood endotoxin removal; serum; diagnostic reagent;
 KW cytokine release control; treatment; pertussis; bacterial meningitis;
 KW HIV related infections; polymyxin B; Group II.
 XX Synthetic.
 OS Key Location/Qualifiers
 FH Region 1..3 /note="repeat region"
 FT Region 4..6 /note="repeat region"
 FT Region 4..6 /note="repeat region"
 XX ZA9200943-A.
 PN 25-NOV-1992.
 PD 10-FEB-1992; 92ZA-0000943.
 PF 11-FEB-1991; 91US-0658744.
 PR (PORR/) PORRO M.
 PA Porro M;
 XX PI

XX WPI; 1993-094304/11.

XX New peptide for treatment or prevention of toxic shock - comprises

PT specified sequences of aminoacid(s) and analogs

PT comprising sequences retro-orientated

XX Example; Page 5; 39pp; English.

XX The (Group II) peptide is an example of a generic peptide of formula

CC R-(Lys/Arg/His - Phe/Tyr/Trp - Leu/Ile/Val)n-R, where n = 1-100

CC and each R is H, an amino acid residue or a fatty acid residue.

CC The peptide is useful for treating or preventing septic shock,

CC mixing with polymyxin B to reduce its toxicity; removing

CC endotoxins from blood, sera or other fluids (in vivo or in

CC vitro); controlling release of cytokines induced by endotoxins;

CC as diagnostic reagents to detect and quantify toxins in blood

CC or sera; preparing non-toxic antigenic complexes of lipid A or

CC lipopolysaccharide (LPS); and for treating pertussis, bacterial

CC meningitis and HIV-related infections. The usual dose is 10-100

CC ug/kg/day, given parenterally. It binds to the same sites as

CC polymyxin B, i.e. it inhibits all the toxic effects of lipid A. It

CC has no antibiotic activity; does not lyse erythrocytes; has no

CC toxicity in mice when injected at 50mg/kg and is relatively unstable

CC against proteases.

XX SQ Sequence 6 AA;

Query Match 66.7%; Score 30; DB 14; Length 6;

Best Local Similarity 75.0%; Pred. No. 9.3e+05;

Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 WVRW 4

DB 2 WIRW 5

RESULT 23

AAW6066

ID AAW6066 standard; peptide; 6 AA.

XX AC AAW6066;

XX DT 16-NOV-1998 (first entry)

XX PEptide useful as somatostatin antagonist.

XX somatostatin antagonist; growth hormone; insulin; glucagon; diabetes;

KW growth promoter; gastric enzyme; eating disorder; disulphide.

XX OS Synthetic.

XX FH Key Location/Qualifiers

FT Misc-difference 1..6

FT /note= "D-form residues"

XX EP863156-A1.

XX PD 09-SEP-1998.

XX PF 05-MAR-1998; 98EP-0301654.

XX PR 06-MAR-1997; 97US-0812724.

XX (AMCY) AMERICAN CYANAMID CO.

XX Baumbach WR, Houghten RA;

XX WPI; 1998-458800/40.

XX New somatostatin antagonist peptide(s) - useful as animal growth

PT promoters

XX

PS Example 3; Page 10; 37pp; English.

XX The invention relates to somatostatin antagonists that can be used to

CC promote the growth of meat-producing animals by decreasing the effect of

CC somatostatin and/or increasing the release of growth hormone, insulin,

CC glucagon and/or gastric enzymes and/or enhancing immune function. Pure

CC somatostatin antagonists may also be useful for treating human or animal

CC disorders where reversal of somatostatin activity is beneficial, e.g.

CC gastrointestinal or eating disorders, diabetes or brain dysfunction. The

CC present sequence represents a somatostatin antagonist.

XX SQ Sequence 6 AA;

Query Match 66.7%; Score 30; DB 19; Length 6;

Best Local Similarity 75.0%; Pred. No. 9.3e+05;

Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 WVRW 4

DB 2 WIRW 5

RESULT 24

AAV24292

ID AAV24292 standard; peptide; 6 AA.

XX AC AAV24292;

XX DT 15-SEP-1999 (first entry)

XX DE Somatostatin antagonist.peptide from US5925618 Example 3.

XX KW Somatostatin antagonist; growth hormone; insulin; glucagon; gastric;

KW enzyme; immune function; cyclic peptide; gastrointestinal disorder;

KW eating disorder; diabetes; brain dysfunction.

XX OS Synthetic.

XX PN US5925618-A.

XX PD 20-JUL-1999.

XX PF 03-MAR-1998; 98US-0033395.

XX PR 06-MAR-1997; 97US-0035181.

XX PR 03-MAR-1998; 98US-0033395.

XX (AMCY) AMERICAN CYANAMID CO.

XX Baumbach WR, Houghten RA;

XX WPI; 1999-429054/36.

XX FT New peptides, used to treat gastrointestinal and eating disorders,

FT diabetes, and brain dysfunction

XX Example 3; Column 10; 15pp; English.

XX The present invention describes linear and cyclic peptides, which

CC decrease the effect of somatostatin. The somatostatin antagonist

CC peptides are used for decreasing the effect of somatostatin, by

CC contacting a somatostatin receptor site. They are also used for

CC increasing the release of insulin, increasing the release of glucagon,

CC enhancing the growth of animals and enhancing immune function. They can

CC be used to treat gastrointestinal and eating disorders, diabetes and

CC brain dysfunction, and also to increase growth in meat producing

CC animals. The peptides demonstrate inverse agonist activity. This allows

CC them to act as pure somatostatin antagonists, while blocking intrinsic

CC somatostatin receptor activity, independent of endogenous somatostatin.

CC AAV24253 to AAV24304 represent peptides used in the exemplification of

CC the present invention.

XX SQ Sequence 6 AA;

Query Match 66.7%; Score 30; DB 20; Length 6;
 Best Local Similarity 75.0%; Pred. No. 9.3e+05;
 Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 WVRW 4
 |::|
 Db 2 WIRW 5

RESULT 25
 ABR45592
 ID ABR45592 standard; Peptide; 6 AA.
 XX
 AC ABR45592;
 XX
 DT 10-JUN-2003 (first entry)
 XX
 DE Staphylococcus aureus CHIPS-related peptide #782.
 XX
 KW CHIPS; Chemotaxis Inhibitory Protein; C5a-receptor; C5aR;
 KW formylated peptide receptor; FPR; neutrophil; monocyte; endothelial cell;
 KW inflammation; cardiovascular disease; central nervous system disease;
 KW gastrointestinal disease; skin disease; genitourinary disease;
 KW joint disease; respiratory disease; HIV infection; antiinflammatory;
 KW cardiant; cerebroprotective; neuroprotective; nootropic; dermatological;
 KW gynecological; immunosuppressive; anti-HIV.
 XX
 OS Staphylococcus aureus.
 OS Synthetic.
 XX
 PN WO2003006048-A1.
 XX
 PD 23-JAN-2003.
 XX
 XX 11-JUL-2001; 2001WO-EP08004.
 XX
 XX 11-JUL-2001; 2001WO-EP08004.
 XX
 PA (JARI-) JARI PHARM BV.
 XX
 PI Van Kessel CPM, Gosselaar-de Haas CJC, Kruijtz JAW;
 PI Van Strijp JAG;
 XX
 DR WPI; 2003-247783/25.
 XX
 XX Combination of peptides derived from chemotaxis inhibiting protein from
 PT Staphylococcus aureus (CHIPS) having CHIPS activity, useful in
 PT prophylaxis and treatment of inflammation, cardiovascular, skin and
 PT kidney diseases
 XX
 PS Disclosure; Page 13; 89pp; English.
 XX
 CC The present invention relates to peptides (ABR44811-ABR47162 and
 CC ABR47164-ABR47385) derived from the Chemotaxis Inhibitory Protein (CHIPS)
 CC from Staphylococcus aureus. The peptide fragments are useful in the
 CC prophylaxis or treatment of diseases or disorders involving the
 CC C5a-receptor (C5aR) and/or formylated peptide receptor (FPR) or
 CC neutrophils, monocytes and endothelial cells or involving acute or
 CC chronic inflammation reactions. The diseases or disorders include
 CC cardiovascular diseases, disease of the central nervous system,
 CC gastrointestinal diseases, skin diseases, genitourinary diseases, joint
 CC diseases, respiratory diseases and HIV infection.
 XX
 SQ Sequence 6 AA;
 Query Match 66.7%; Score 30; DB 24; Length 6;
 Best Local Similarity 50.0%; Pred. No. 9.3e+05;
 Matches 3; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 WVRWHF 6
 |::|
 Db 1 WIFWVF 6

RESULT 26
 AAY08189
 ID AAY08189 standard; peptide; 8 AA.
 XX
 AC AAY08189;
 XX
 DT 09-JUL-1999 (first entry)
 XX
 DE Clotting factor VIII binding peptide 71.
 XX
 KW Coagulation factor VIII; clotting factor VIII; diagnosis; treatment;
 KW purification; disorder; blood coagulation.
 XX
 OS Synthetic.
 XX
 PN WO9914232-A1.
 XX
 PD 25-MAR-1999.
 XX
 PF 12-SEP-1998; 98WO-EP05822.
 XX
 PR 13-SEP-1997; 97DE-1040310.
 XX
 PA (OCTA-) OCTAPHARMA AG.
 XX
 PI Jungbauer A;
 XX
 DR WPI; 1999-312410/26.
 XX
 XX Peptides with affinity for blood clotting factor 8
 PS Claim 4; Page 38; 51pp; German.
 XX
 CC This invention describes novel peptides (AAY08119-Y08212) with affinity
 CC for coagulation factor VIII which can be used for labeling,
 CC identification (diagnostic) and purification of factor VIII. Some are
 CC specific for one of natural and recombinant factor VIII, others are
 CC reactive with both forms. Factor VIII is used to treat disorders of
 CC blood coagulation. Using relatively small peptides, rather than large
 CC antibody molecules generally used, simplifies purification of factor
 CC VIII. The peptides are of formula R1-X-R2 where R1 = amino or a
 CC peptide; R2 = carboxy or a peptide and X = a peptide of at least 3,
 CC preferably 7-12, amino acid residues.
 XX
 SQ Sequence 8 AA;
 Query Match 66.7%; Score 30; DB 20; Length 8;
 Best Local Similarity 33.3%; Pred. No. 9.3e+05;
 Matches 2; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 WVRWHF 6
 |::|
 Db 2 WIKWEY 7

RESULT 27
 AAW80380
 ID AAW80380 standard; Peptide; 12 AA.
 XX
 AC AAW80380;
 XX
 DT 14-JAN-1999 (first entry)
 XX
 DE Peptide eluted after biopanning against maltose binding protein.
 XX
 KW Intervening protein sequence; IVPS; protein splicing;
 KW protein production; maltose binding protein.
 XX
 OS Synthetic.
 XX
 PN US5834247-A.

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XX PD 10-NOV-1998.
XX PF 05-MAR-1997; 97US-0811492.
XX PR 05-MAR-1997; 97US-0811492.
XX PR 09-DEC-1992; 92US-0004139.
XX PR 03-NOV-1993; 93US-0146885.
XX PR 28-JUN-1995; 95US-0496247.
XX PR 29-DEC-1995; 95US-0580555.
XX PA (NEW) NEW ENGLAND BIOLABS INC.
XX PI Adam E, Chong SSC, Comb DG, Hodges RA, Jack WE;
XX PI Noren CJ, Perlier FB, Southworth M, Xu M;
XX DR WPI; 1999-008713/01.
XX PT New modified target proteins - which have controllable intervening
XX PT protein sequence which can facilitate production, purification,
XX PT labelling or isolation of target proteins
XX PS Example 22; Fig 36; 123pp; English.
XX CC AA080372-93 represent peptides eluted after biopanning against
XX CC maltose binding protein, in the course of the invention. The
XX CC specification describes IVPS (intervening protein sequence)
XX CC regions which encode peptides which are removed via protein
XX CC splicing to form the native protein. The specification describes
XX CC a modified protein comprising a target protein or portion, fused
XX CC either internally or terminally, to a IVPS, or to an amino- or
XX CC carboxyl-terminal element of a IVPS. The IVPS are capable of
XX CC excision from or cleavage of the modified protein upon predetermined
XX CC conditions, in cis or trans, e.g. temperature increase, deglycosylation,
XX CC unblocking of amino acid residues, treatment with chemical reagents.
XX CC The methods can be used for modifying, producing, purifying, labelling
XX CC or isolating target proteins such as enzymes, toxins, cytokines,
XX CC glycoproteins and growth factors.
XX SQ Sequence 12 AA;
Query Match 66.7%; Score 30; DB 20; Length 12;
Best Local Similarity 100.0%; Pred. No. 97;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3 RWHF 6
Db 7 RWHF 10
RESULT 28
ABB74383
ID ABB74383 standard; Peptide; 14 AA.
XX AC ABB74383;
XX DT 18-APR-2002 (first entry)
XX DE Karyophilic peptide SEQ ID NO:147.
XX KW Fusogenic; nuclear localisation signal; NLS; encapsulation; lipogene;
XX KW liposome; micelle; karyophilic; cytostatic; antitumour; solid tumour;
XX KW peptide-lipid-polynucleotide complex; neoplastic disease; gene therapy;
XX KW breast carcinoma; prostate carcinoma.
XX OS Saccharomyces cerevisiae.
XX PF WO200193836-A2.
XX PD 13-DEC-2001.
XX PF 08-JUN-2001; 2001WO-US18657.
XX

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PR 09-JUN-2000; 2000US-210925P.
XX (BOUL/) BOULIKAS T.
XX PI Boulikas T;
XX DR WPI; 2002-164295/21.
XX PT Encapsulation of plasmid DNA (lipogenes) and therapeutic agents with
XX PT nuclear localization signal/fusogenic peptide conjugates into targeted
XX PT liposome complexes -
XX PS Claim 14; Page 63; 107pp; English.
XX CC The present invention describes a method for producing micelles with
XX CC entrapped therapeutic agents. The method comprises: (1) combining
XX CC negatively charged agent with a cationic lipid in a ratio where 30-90 %
XX CC of the negatively charged atoms are neutralised by positive charges on
XX CC lipid molecules to form an electrostatic micelle complex in 20-80 %
XX CC ethanol; and (2) combining the micelle complex of (a) with fusogenic-
XX CC karyophilic peptide conjugates in a 0.0-0.3 ratio, therefore producing
XX CC micelles with entrapped therapeutic agents. Also described is a method
XX CC for delivering a therapeutic agent in vivo, comprising the administration
XX CC of the micelle. ABB74256 to ABB74858 represent specifically claimed
XX CC nuclear localisation signal (NLS) peptides for use in the method as the
XX CC fusogenic-karyophilic peptides. The micelles produced can have cytostatic
XX CC and antitumour activities. The peptide-lipid-polynucleotide complexes
XX CC produced are useful for inhibiting the progression of neoplastic
XX CC diseases. The invention relates to the field of gene therapy and is
XX CC directed toward methods for producing peptide-lipid-polynucleotide
XX CC complexes suitable for delivery of polynucleotides. The encapsulated
XX CC molecules display therapeutic efficacy in eradicating solid tumours
XX CC including but not limited to breast carcinoma or prostate carcinoma.
XX CC ABB74235 to ABB74255 are used in the exemplification of the present
XX CC invention.
XX SQ Sequence 14 AA;
Query Match 66.7%; Score 30; DB 23; Length 14;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3 RWHF 6
Db 10 RWHF 13
RESULT 29
AAB49729
ID AAB49729 standard; peptide; 7 AA.
XX AC AAB49729;
XX DT 10-APR-2001 (first entry)
XX DE Peptide SEQ ID 40 which binds to the TADG5 protein.
XX KW TADG5; human; zinc finger; SH3 domain; cell signalling;
XX KW cell cycle control.
XX OS Unidentified.
XX PF WO200102432-A1.
XX PD 11-JAN-2001.
XX PF 30-JUN-2000; 2000WO-US18304.
XX PR 01-JUL-1999; 99US-0346510.
XX PA (UYAR-) UNIV ARKANSAS.
XX PI O'Brien TJ, Wang Y;

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XX WPI; 2001-123102/13.
 XX Novel SH3 domain-containing TADG5 protein useful for regulating gene
 PT replication, as a nutrition supplement, and as a marker for human
 PT tissue, or in cell cycle control -
 XX Example 6; Page 36; 85pp; English.
 XX This invention relates to an SH3 domain-containing protein termed TADG5,
 CC and its variants. The invention includes amino acid and polynucleotide
 CC sequences for TADG5, and oligonucleotides which bind to either the basic
 CC amino acid region and/or the zinc finger motif of the TADG5 protein. The
 CC basic amino acid region or zinc finger motif of TADG5 is useful for
 CC regulating the expression of the TADG5 gene in a cell. The TADG5 protein
 CC is useful as a source of amino acids, as a nutrition supplement, and as a
 CC marker for human tissue, or in cell cycle control. TADG5 protein or
 CC peptides generated from the protein sequence are useful as antigens for
 CC the production of polyclonal and monoclonal antibodies. DNA encoding
 CC TADG5 is useful as an antisense vehicle for cell cycle control by
 CC shutting down signalling or cell division. The present sequence
 CC represents a peptide identified from a phage display peptide library
 CC through biopanning with the TADG5 protein.
 XX Sequence 7 AA;
 SQ

Query Match 64.4%; Score 29; DB 22; Length 7;
 Best Local Similarity 60.0%; Pred. No. 9.3e+05;
 Matches 3; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 WVRWH 5
 | : ||
 Db 3 WMDWH 7

RESULT 30
 ABB90493
 ID ABB90493 standard; Peptide; 8 AA.
 AC ABB90493;
 XX 27-MAY-2002 (first entry)
 DE Hominidae LDL receptor related peptide sequence #139.
 KW Hominidae; low density lipoprotein receptor; LDL receptor; LDL-R;
 KW detection; lipid metabolic error; hyperlipaemia; mutation;
 KW arteriosclerosis; ischaemic heart disease; ischaemia.
 XX Hominidae.
 OS Synthetic.
 XX WO200206467-A1.
 PN 24-JAN-2002.
 PD 17-JUL-2001; 2001WO-JP06153.
 PF 18-JUL-2000; 2000JP-0218039.
 PR (BMLB-) BML INC.
 PA Hattori H, Tsuji M, Okada T, Nagano M, Egashira T, Ishihara M;
 PI Iwasaki T;
 XX WPI; 2002-179794/23.
 XX Set of specific low density lipoprotein receptor gene mutations for
 PT diagnosis of familial lipid metabolism errors including hyperlipemia -
 PS Example; Fig 50; 123pp; Japanese.
 XX The present invention describes a method for detecting lipid metabolism

CC errors in patients using as indicators a set of 65 specific low density
 CC lipoprotein (LDL) receptor gene mutations. The method can be used in the
 CC diagnosis of an inherited predisposition to the development of diseases
 CC associated with hyperlipaemia, such as arteriosclerosis and ischaemic
 CC heart disease. ABL91141 encodes the LDL receptor given in ABB90525.
 CC ABL91142 to ABL91183 represent PCR primers used in the amplification of
 CC the receptor gene. ABL90990 to ABL91140 and ABB90445 to ABB90524
 CC represents sequences used in the exemplification of the present
 CC invention.

XX Sequence 8 AA;
 SQ
 Query Match 64.4%; Score 29; DB 23; Length 8;
 Best Local Similarity 60.0%; Pred. No. 9.3e+05;
 Matches 3; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 WVRWH 5
 | : ||
 Db 2 WPDWH 6

RESULT 31
 AAR33522
 ID AAR33522 standard; peptide; 6 AA.
 XX AAR33522;
 AC AAR33522;
 XX 07-JUL-1993 (first entry)
 DT Peptide for treating septic shock.

DE Toxic shock; blood endotoxin removal; serum; diagnostic reagent;
 KW cytokine release control; treatment; pertussis; bacterial meningitis;
 KW HIV related infections; polymyxin B; Group I.
 XX Synthetic.
 OS

Key Location/Qualifiers
 FH Region 1..3 /note= "repeat region"
 FT Region 4..6 /note= "repeat region"
 FT

XX ZA9200943-A.

XX 25-NOV-1992.

XX 10-FEB-1992; 92ZA-0000943.

XX 11-FEB-1991; 91US-0658744.

XX (PORR/) PORRO M.

XX Porro M;

XX WPI; 1993-094304/11.

XX New peptide for treatment or prevention of toxic shock - comprises
 PT specified sequences of aminoacid(s) and analogs
 PT comprising sequences retro-orientated

XX Example; Page 5; 39pp; English.

XX The (Group I) peptide is an example of a generic peptide of formula
 CC R-(Lys/Arg/His - Phe/Tyr/Trp - Leu/Ile/Val)n-R, where n = 1-100
 CC and each R is H, an amino acid residue or a fatty acid residue.
 CC The peptide is useful for treating or preventing septic shock,
 CC mixing with polymyxin B to reduce its toxicity; removing
 CC endotoxins from blood, sera or other fluids (in vivo or in
 CC vitro); controlling release of cytokines induced by endotoxins;
 CC as diagnostic reagents to detect and quantify toxins in blood
 CC or sera; preparing non-toxic antigenic complexes of lipid A or
 CC lipopolysaccharide (LPS); and for treating pertussis, bacterial

CC meningitis and HIV-related infections. The usual dose is 10-100
 CC ug/kg/day, given parenterally. It binds to the same sites as
 CC polymyxin B, i.e. it inhibits all the toxic effects of lipid A. It
 CC has no antibiotic activity; does not lyse erythrocytes; has no
 CC toxicity in mice when injected at 50mg/kg and is relatively unstable
 CC against proteases.

XX Sequence 6 AA;
 SQ Query Match 62.2%; Score 28; DB 14; Length 6;
 Best Local Similarity 75.0%; Pred. No. 9.3e+05;
 Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 1 WVRW 4
 ||:
 Db 2 WVKW 5

RESULT 32
 AAR37388
 ID AAR37388 standard; peptide; 6 AA.

XX AC AAR37388;
 XX DT 07-JUL-1993 (first entry)
 XX DE Peptide for treating septic shock.
 XX KW Toxic shock; blood endotoxin removal; serum; diagnostic reagent;
 KW cytokine release control; treatment; pertussis; bacterial meningitis;
 KW HIV related infections; polymyxin B; Group II.
 XX OS Synthetic.

FT Key Location/Qualifiers
 FT Region 1..3 /note= "repeat region"
 FT Region 4..6 /note= "repeat region"

XX ZA9200943-A.
 XX PD 25-NOV-1992.
 XX PF 10-FEB-1992; 92ZA-0000943.
 XX PR 11-FEB-1991; 91US-0658744.
 XX PA (PORR/) PORRO M.

XX PI Porro M;
 XX DR WPI; 1993-094304/11.

XX New peptide for treatment or prevention of toxic shock - comprises
 FT specified sequences of aminoacid(s) and analogs
 PT comprising sequences retro-orientated
 XX Example; Page 5; 39pp; English.

XX The (Group II) peptide is an example of a generic peptide of formula
 CC R-(Lys/Arg/His - Phe/Tyr/Trp - Leu/Ile/Val)n-R, where n = 1-100
 CC and each R is H, an amino acid residue or a fatty acid residue.
 CC The peptide is useful for treating or preventing septic shock,
 CC mixing with polymyxin B to reduce its toxicity; removing
 CC endotoxins from blood, sera or other fluids (in vivo or in
 CC vitro); controlling release of cytokines induced by endotoxins;
 CC as diagnostic reagents to detect and quantify toxins in blood
 CC or sera; preparing non-toxic antigenic complexes of lipid A or
 CC lipopolysaccharide (LPS); and for treating pertussis, bacterial
 CC meningitis and HIV-related infections. The usual dose is 10-100
 CC ug/kg/day, given parenterally. It binds to the same sites as
 CC polymyxin B, i.e. it inhibits all the toxic effects of lipid A. It

CC has no antibiotic activity; does not lyse erythrocytes; has no
 CC toxicity in mice when injected at 50mg/kg and is relatively unstable
 CC against proteases.

XX Sequence 6 AA;
 SQ Query Match 62.2%; Score 28; DB 14; Length 6;
 Best Local Similarity 75.0%; Pred. No. 9.3e+05;
 Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 1 WVRW 4
 ||:
 Db 2 WLRW 5

RESULT 33
 AAR93719
 ID AAR93719 standard; peptide; 6 AA.

XX AC AAR93719;
 XX DT 10-MAY-1996 (first entry)
 XX DE Cyclo[-Tyr-trp-Leu-Arg-Trp-Pro-].
 XX KW neurokinin A antagonist; tachykinin; respiratory disease; asthma;
 KW analgesic; cyclic.
 XX OS Synthetic.

XX FH Key Location/Qualifiers
 FT Modified-site 1 /note= "not an N-terminal amino acid, but condensed
 FT with Pro(6) to form a cyclic peptide"
 FT Misc-difference 2 /note= "D-form residue"
 FT Modified-site 6 /note= "not a C-terminal amino acid, but condensed
 FT with Tyr(1) to form a cyclic peptide"

XX WO9521187-A1.

XX PD 10-AUG-1995.

XX PF 10-JAN-1995; 95WO-US00296.

XX PR 03-FEB-1994; 94US-0191571.

XX PA (RICH) MERRELL DOW PHARM INC.

XX PI Buck SH, Harbeson SL, Kudlacz EM, Owen TJ;

XX DR WPI; 1995-336695/43.

XX New cyclic peptide derivs. - are neurokinin A and tachykinin
 FT antagonists useful e.g. for treating asthma or as analgesics

XX Claims 25, 33; Pages 74, 76; 82pp; English.

XX The patent describes novel cyclic hexapeptide and octapeptide compounds
 CC which are antagonists of neurokinin A and which are useful medically as
 CC analgesics and for treating respiratory diseases such as asthma. The
 CC patent also discloses the new use of a broader range of cyclic
 CC hexapeptides as analgesics and for treating respiratory diseases such
 CC as asthma. The present sequence represents a specifically preferred
 CC example of the broader peptides.

XX Sequence 6 AA;

Query Match 62.2%; Score 28; DB 16; Length 6;
 Best Local Similarity 75.0%; Pred. No. 9.3e+05;
 Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 WVRW 4
DB 2 WLRW 5

RESULT 34

AAR93706
ID AAR93706 standard; peptide; 6 AA.

XX AAR93706;

XX 10-MAY-1996 (first entry)

XX Cyclo[-Tyr-Trp-Leu-Arg-Trp-Gly-].

XX neurokinin A antagonist; tachykinin; respiratory disease; asthma;
KW analgesic; cyclic.

XX Synthetic.

XX Key Location/Qualifiers

FT Modified-site 1 /note= "not an N-terminal amino acid, but condensed
with Gly(6) to form a cyclic peptide"

FT Modified-site 6 /note= "not a C-terminal amino acid, but condensed
with Tyr(1) to form a cyclic peptide"

FT Misc-difference 1,2,5 /note= "optionally Trp(2), or Tyr(1) and Trp(2), or
Trp(2) and Trp(5) are D-form residues"

XX WO9521187-A1.

XX 10-AUG-1995.

XX 10-JAN-1995; 95WO-US00296.

XX 03-FEB-1994; 94US-0191571.

XX (RICH) MERRELL DOW PHARM INC.

XX Buck SH, Harbeson SL, Kudlacz EM, Owen TJ;

XX WPI; 1995-336695/43.

XX New cyclic peptide derivs. - are neurokinin A and tachykinin
antagonists useful e.g. for treating asthma or as analgesics

XX Claims 5, 7; Pages 68, 69; 82pp; English.

XX The patent describes novel cyclic hexapeptide and octapeptide compounds
which are antagonists of neurokinin A and which are useful medically as
analgesics and for treating respiratory diseases such as asthma. The
present sequence represents specifically preferred examples of the new
peptides.

XX Sequence 6 AA;

Query Match 62.2%; Score 28; DB 16; Length 6;

Best Local Similarity 75.0%; Pred. No. 9.3e+05;
Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 WVRW 4
DB 2 WLRW 5

RESULT 35

AAR93707

ID AAR93707 standard; peptide; 6 AA.

XX AAR93707;

DT 10-MAY-1996 (first entry)

XX Cyclo[-Trp-Trp-Leu-Arg-Trp-Gly-].

XX neurokinin A antagonist; tachykinin; respiratory disease; asthma;
KW analgesic; cyclic.

XX Synthetic.

XX Key Location/Qualifiers

FT Modified-site 1 /note= "not an N-terminal amino acid, but condensed
with Gly(6) to form a cyclic peptide"

FT Modified-site 6 /note= "not a C-terminal amino acid, but condensed
with Trp(1) to form a cyclic peptide"

FT Misc-difference 2 /note= "D-form residue"

XX WO9521187-A1.

XX 10-AUG-1995.

XX 10-JAN-1995; 95WO-US00296.

XX 03-FEB-1994; 94US-0191571.

XX (RICH) MERRELL DOW PHARM INC.

XX Buck SH, Harbeson SL, Kudlacz EM, Owen TJ;

XX WPI; 1995-336695/43.

XX New cyclic peptide derivs. - are neurokinin A and tachykinin
antagonists useful e.g. for treating asthma or as analgesics

XX Claim 5; Page 68; 82pp; English.

XX The patent describes novel cyclic hexapeptide and octapeptide compounds
which are antagonists of neurokinin A and which are useful medically as
analgesics and for treating respiratory diseases such as asthma. The
present sequence represents a specifically preferred example of the new
peptides.

XX Sequence 6 AA;

Query Match 62.2%; Score 28; DB 16; Length 6;

Best Local Similarity 75.0%; Pred. No. 9.3e+05;
Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 WVRW 4
DB 2 WLRW 5

RESULT 36

AAR93709

ID AAR93709 standard; peptide; 6 AA.

XX AAR93709;

XX 10-MAY-1996 (first entry)

XX Cyclo[-Tyr-Trp-Leu-Arg-Trp-(D- or L-)Ala-].

XX neurokinin A antagonist; tachykinin; respiratory disease; asthma;
KW analgesic; cyclic.

XX Synthetic.

XX Key Location/Qualifiers

FT Modified-site 1 /note= "not an N-terminal amino acid, but condensed"

FT Modified-site 6 with Ala(6) to form a cyclic peptide"
 FT PI /note= "not a C-terminal amino acid, but condensed
 FT PT with Tyr(1) to form a cyclic peptide"
 FT Misc-difference 2
 FT PT /note= "D-form residue"
 FT PT /note= "L- or D-form residue"
 FT XX WO9521187-A1.
 XX PD 10-AUG-1995.
 XX PF 10-JAN-1995; 95WO-US00296.
 XX PR 03-FEB-1994; 94US-0191571.
 XX PA (RICH) MERRELL DOW PHARM INC.
 XX PI Buck SH, Harbeson SL, Kudlacz EM, Owen TJ;
 XX DR WPI; 1995-336695/43.
 XX New cyclic peptide derivs. - are neurokinin A and tachykinin
 PT antagonists useful e.g. for treating asthma or as analgesics
 XX PS Claim 6; Page 69; 82pp; English.
 XX CC The patent describes novel cyclic hexapeptide and octapeptide compounds
 CC which are antagonists of neurokinin A and which are useful medically as
 CC analgesics and for treating respiratory diseases such as asthma. The
 CC present sequence represents a specifically preferred example of the new
 CC peptides.
 XX SQ Sequence 6 AA;
 Query Match 62.2%; Score 28; DB 16; Length 6;
 Best Local Similarity 75.0%; Pred. No. 9.3e+05;
 Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
 QY 1 WVRW 4
 DB | : | |
 2 WLRW 5
 RESULT 37
 AAR74033
 ID AAR74033 standard; Peptide; 10 AA.
 AC AAR74033;
 XX 19-DEC-1995 (first entry)
 XX Bombesin-related peptide SAP bombesin-10.
 DE Bombesin; frog; PCR; primer; amplification; probe; prohormone; human;
 KW veterinary medicine.
 XX Synthetic.
 OS Key Location/Qualifiers
 FH Misc-difference 10
 FT /note= "amidated C-terminus"
 FT XX US5410018-A.
 XX PD 25-APR-1995.
 XX PF 25-FEB-1994; 94US-0203196.
 XX PR 25-FEB-1994; 94US-0203196.
 XX PA (OREG-) OREGON REGIONAL PRIMATE RES CENT.

XX Barry B, Nagalla S, Spindel ER;
 PI WPI; 1995-169632/22.
 XX Purified bombesin-related peptide(s) - prepared by recombinant DNA
 PT methods
 PT Claim 2; Column 7-8; 10pp; English.
 XX The peptides AAR74032-3 are derived from the bombesin-related prohormone
 CC AAR74034. The peptides are generated by internal processing of the
 CC prohormone at the Ser-Leu and Lys-Lys sequences. This peptide is
 CC designated SAP bombesin-10 ("BIM-26336") and corresponds to residues
 CC 49-58 of the prohormone. The SAP bombesin-10 is then modified from the
 CC prohormone-cleaved peptide by having an amidated methionyl residue.
 CC This peptide can be generated by an internal cleavage of the SAP
 CC bombesin-14 (AAR74032). The amide gp. being donated from the Gly residue
 CC at position 59 of the prohormone. The peptides have applications within
 CC human and veterinary medicine, especially to treat the diseases or
 CC disorders specified in US5217955, WO9402018 and WO9220363.
 XX SQ Sequence 10 AA;
 Query Match 62.2%; Score 28; DB 16; Length 10;
 Best Local Similarity 66.7%; Pred. No. 1.7e+02;
 Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 1 WVRWHF 6
 DB | : | |
 4 WARGHF 9
 RESULT 38
 AAR86144
 ID AAR86144 standard; peptide; 10 AA.
 XX AAR86144;
 XX 26-JUN-1996 (first entry)
 XX Anti-ELAM-1 binding peptide #121.
 DE Peptide mimetic; endothelial leukocyte adhesion molecule; ELAM; selectin;
 KW receptor; leukocyte; vascular wall; endothelium; extravasation;
 KW inflammation; sialyl Lewis; cell surface glycoprotein; HL60 cell.
 XX Synthetic.
 OS WO9531210-A1.
 XX 23-NOV-1995.
 XX 11-MAY-1995; 95WO-US06315.
 XX 11-MAY-1994; 94US-0241054.
 XX (AFFY-) AFFYMAX TECHNOLOGIES NV.
 XX Barrett RW, Cwiria SE, Dower WJ, Koller KJ, Lee J;
 PI Martens CL, Ruhland-fritsch B;
 XX WPI; 1996-010687/01.
 XX New peptide(s) that bind to endothelial leukocyte adhesion molecule
 PT 1 - useful for treating inflammation and other E-selectin mediated
 PT diseases
 XX Disclosure; Page 17; 85pp; English.
 XX Peptides AAR86024-R86236 are examples of peptides and their mimetics
 CC that bind to endothelial leukocyte adhesion molecule (ELAM)-1. This
 CC molecule is a member of the selectin family of receptors and is involved

CC in binding of leukocytes to the vascular endothelial wall prior to
 CC extravasation of the leukocyte, e.g., to a site of inflammation.
 CC The peptides bind pref. to E-selectin but may also bind L- or
 CC P-selectin, and can be used to treat conditions mediated by E-selectin,
 CC e.g. inflammatory conditions. The peptides have strong affinity for the
 CC selectin receptors and inhibit the binding of the sialyl Lewis (SLe-x)
 CC part of cell surface glycoproteins to E-selectin. The peptide are
 CC small, generally less than 2 kD, have an IC50 of up to 100 micromole
 CC against binding of HL60 cells to ELAM-1, have one or more peptide
 CC linkages replaced by CH2OC(O)NR, phosphonate, CH2SO2NR, CH2NR, CON(R6),
 CC or NHCONH linkages where R = H or a lower alkyl and R6 = a lower alkyl.
 CC The peptides may also have substituted N- and C-termini e.g.
 CC succinimido, N-benzoyloxycarbonyl or N-lower alkyl cpds.

XX SQ Sequence 10 AA;

Query Match 62.2%; Score 28; DB 17; Length 10;
 Best Local Similarity 75.0%; Pred. No. 1.7e+02;
 Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 WVRW 4
 DB 6 WVKW 9

RESULT 39

AAW63962
 ID AAW63962 standard; peptide; 10 AA.

AC AAW63962;

XX 25-MAR-2003 (updated)
 DT 02-OCT-1998 (first entry)

XX ELAM-1 peptide mimetic #117.

XX Endothelial leukocyte adhesion molecule 1; ELAM-1; inflammation;
 KW selectin; diagnosis; mimetic.

XX Synthetic.

XX US5728802-A.

XX 17-MAR-1998.

XX 12-MAY-1995; 95US-0439817.

XX 12-MAY-1995; 95US-0439817.

PR 06-MAY-1992; 92US-0881395.

PR 05-MAY-1993; 93US-0057295.

PR 11-MAY-1994; 94US-0241054.

XX (AFFY-) AFFYMAX TECHNOLOGIES NV.

XX Barrett RW, Cwirila SE, Dower WJ, Koller KJ, Lee J;
 PI Martens CL, Ruhland B;

XX WPI; 1998-249882/22.

XX Peptide(s) or their mimetic(s) that bind to E-selectin - useful for,
 PT e.g. treating conditions mediated by E-selectin such as inflammatory
 PT condition(s)

XX Example 2; Column 91-92; 84pp; English.

XX AAW63846-W64054 are peptides and peptide mimetics that bind selectins
 CC including endothelial leukocyte adhesion molecule 1 (ELAM-1) and can be
 CC used for blocking adhesion of leukocytes to the selectins. The peptides
 CC have applications for the treatment of conditions mediated by
 CC E-selectin, e.g. inflammatory conditions. They can also be used for
 CC diagnostic purposes, e.g. for identifying the vascular site of E-selectin
 CC in vivo or can be coupled to anti-inflammatory or other drugs.
 CC (Updated on 25-MAR-2003 to correct PF field.)

XX SQ Sequence 10 AA;
 Query Match 62.2%; Score 28; DB 19; Length 10;
 Best Local Similarity 75.0%; Pred. No. 1.7e+02;
 Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 WVRW 4
 DB 6 WVKW 9

RESULT 40

AAAR36519
 ID AAR36519 standard; peptide; 12 AA.

XX AAR36519;

XX 25-MAR-2003 (updated)

DT 11-AUG-1993 (first entry)

XX D32.39 antibody isolated peptide.

XX Generation; screening; selection; screening; peptide ligands;
 KW receptor molecules; therapeutics; diagnostics.

XX Synthetic.

XX Key Location/Qualifiers

PH Region 3..8

FT /note= "D32.39 epitope"

FT WO9308278-A1.

PN 29-APR-1993.

XX 15-OCT-1992; 92WO-US08879.

XX 16-OCT-1991; 91US-0778233.

XX (AFFY-) AFFYMAX TECHNOLOGIES NV.

XX Cull MG, Miller JF, Schatz PJ, Stemmer WPC;
 PI WPI; 1993-152471/18.

XX Random peptide library and screening method - using vectors
 PT encoding fusion proteins of DNA binding protein and peptide, used
 PT in screening for ligands

XX Disclosure; Fig 3; 153pp; English.
 XX The sequence is that of a peptide isolated by panning with the
 CC D32.39 antibody, with an ELISA result of 0.1. This was done as
 CC an example of a method of constructing a random peptide library
 CC of at least 10⁶ members. The method enables the generation,
 CC screening and selection of peptide ligands and receptor molecules.
 CC Peptides generated using the method can be used in therapeutics
 CC and diagnostics, e.g. to inhibit receptor activity.
 CC (Updated on 25-MAR-2003 to correct PN field.)

XX SQ Sequence 12 AA;

Query Match 62.2%; Score 28; DB 14; Length 12;
 Best Local Similarity 100.0%; Pred. No. 2e+02;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 VRWH 5
 DB 2 VRWH 5

RESULT 41

AAR56756
 ID AAR56756 standard; peptide; 12 AA.
 XX AC AAR56756;
 XX DT 25-MAR-2003 (updated)
 XX DT 20-MAR-1995 (first entry)
 XX DT Random peptide #53 isolated by anti-dynorphin B Ab panning.
 XX DE Dynorphin B; epitope; antibody panning; random peptide library;
 XX KW antibody D32.39; ligand screening.
 XX KW Synthetic.
 XX OS
 XX FT Key Location/Qualifiers
 XX FT Peptide 3..8
 XX FT /note= "D32.39 epitope"
 XX PN US5498530-A.
 XX PD 12-MAR-1996.
 XX PF 15-AUG-1994; 94US-0290641.
 XX PR 15-OCT-1992; 92US-0963321.
 XX PR 16-OCT-1991; 91US-0778233.
 XX PR 15-AUG-1994; 94US-0290641.
 XX PA (AFFY-) AFFYMAX TECHNOLOGIES NV.
 XX PI Cull MG, Miller JF, Schatz PJ, Stemmer WPC;
 XX PI WPI; 1996-159686/16.
 XX DR Random peptide libraries comprising host cells expressing DNA
 XX PT binding proteins fused with random peptide(s) - used to identify,
 XX PT e.g. peptide ligands of receptors
 XX PS Example 4; Fig 3B; 45pp; English.
 XX CC A random peptide (RP) library can be constructed by transforming host
 XX CC cells with a collection of recombinant vectors that encode a fusion
 XX CC protein comprised of a DNA binding protein (BP) and a RP and also
 XX CC contains a binding site for the DNA BP. The RP library can be used to
 XX CC screen for novel ligands, the method resulting in the formation of a
 XX CC complex comprising the fusion protein bound to a receptor through the RP
 XX CC ligand and to the recombinant DNA vector through the DNA BP. An RP
 XX CC library (AAR91450-506) was screened with D32.39 and a six amino acid
 XX CC region of dynorphin B (RQPKVV), an opioid peptide, was found to be the
 XX CC preferred recognition sequence for D32.39.
 XX CC (Updated on 25-MAR-2003 to correct PF field.)
 XX SQ Sequence 12 AA;
 Query Match 62.2%; Score 28; DB 15; Length 12;
 Best Local Similarity 100.0%; Pred. No. 2e+02;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 2 VRWH 5
 Db 2 VRWH 5
 RESULT 42
 AAR91504
 ID AAR91504 standard; Peptide; 12 AA.
 XX AC AAR91504;
 XX DT 25-MAR-2003 (updated)

AAR56756
 ID AAR56756 standard; peptide; 12 AA.
 XX AC AAR56756;
 XX DT 25-MAR-2003 (updated)
 XX DT 20-MAR-1995 (first entry)
 XX DT Random peptide #53 isolated by anti-dynorphin B Ab panning.
 XX DE Dynorphin B; epitope; antibody panning; random peptide library;
 XX KW antibody D32.39; ligand screening.
 XX KW Synthetic.
 XX OS
 XX FT Key Location/Qualifiers
 XX FT Peptide 3..8
 XX FT /label= D32.39_epitope
 XX PN US5338665-A.
 XX PD 16-AUG-1994.
 XX PF 15-OCT-1992; 92US-0963321.
 XX PR 16-OCT-1991; 91US-0778233.
 XX PR 15-OCT-1992; 92US-0963321.
 XX PA (AFFY-) AFFYMAX TECHNOLOGIES NV.
 XX PI Schatz PJ, Stemmer WPC;
 XX PI WPI; 1994-263274/32.
 XX DR Construction of random peptide library - by creating vectors
 XX PT contg. DNA encoding the random peptide(s) fused to DNA binding
 XX PT proteins; used to screen for novel ligands
 XX PS Example 4; Fig 3B; 45pp; English.
 XX CC A random peptide library was constructed in E.coli hosts.
 XX CC The library was lysed and panned using antibody D32.39 which
 XX CC recognises the Dynorphin B epitope RQPKVV. Peptides isolated by
 XX CC panning were sequenced and a consensus epitope was identified (see
 XX CC features table). Arginine is invariant in the first position for all
 XX CC the ELISA positive clones (AAR56701-R56758). No strong bias was
 XX CC evident for the second position but in the third position, 5 amino
 XX CC acids (Phe, His, Asp, Tyr, Trp) account for 98% of the residues. The
 XX CC fourth position shows a strong bias for positively charged residues
 XX CC (Lys and Arg) with almost exclusively hydrophobic residues at
 XX CC position 5 (mostly Val). Val and Thr predominate at the sixth
 XX CC position (76%) with Ser and Ile accounting for the remaining amino
 XX CC acids.
 XX CC (Updated on 25-MAR-2003 to correct PF field.)
 XX SQ Sequence 12 AA;
 Query Match 62.2%; Score 28; DB 15; Length 12;
 Best Local Similarity 100.0%; Pred. No. 2e+02;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 2 VRWH 5
 Db 2 VRWH 5
 RESULT 42
 AAR91504
 ID AAR91504 standard; Peptide; 12 AA.
 XX AC AAR91504;
 XX DT 25-MAR-2003 (updated)

21-NOV-1996 (first entry)
 D32.39 monoclonal antibody peptide ligand 53.
 dynorphin B; random peptide library; construction; monoclonal antibody;
 D32.39; epitope; screening.
 Synthetic.
 Key Location/Qualifiers
 Peptide 3..8
 /note= "D32.39 epitope"
 US5498530-A.
 12-MAR-1996.
 15-AUG-1994; 94US-0290641.
 15-OCT-1992; 92US-0963321.
 16-OCT-1991; 91US-0778233.
 15-AUG-1994; 94US-0290641.
 (AFFY-) AFFYMAX TECHNOLOGIES NV.
 Cull MG, Miller JF, Schatz PJ, Stemmer WPC;
 WPI; 1996-159686/16.
 Random peptide libraries comprising host cells expressing DNA
 binding proteins fused with random peptide(s) - used to identify,
 e.g. peptide ligands of receptors
 Example 4; Fig 3B; 45pp; English.
 A random peptide (RP) library can be constructed by transforming host
 cells with a collection of recombinant vectors that encode a fusion
 protein comprised of a DNA binding protein (BP) and a RP and also
 contains a binding site for the DNA BP. The RP library can be used to
 screen for novel ligands, the method resulting in the formation of a
 complex comprising the fusion protein bound to a receptor through the RP
 ligand and to the recombinant DNA vector through the DNA BP. An RP
 library (AAR91450-506) was screened with D32.39 and a six amino acid
 region of dynorphin B (RQPKVV), an opioid peptide, was found to be the
 preferred recognition sequence for D32.39.
 (Updated on 25-MAR-2003 to correct PF field.)
 Sequence 12 AA;
 Query Match 62.2%; Score 28; DB 17; Length 12;
 Best Local Similarity 100.0%; Pred. No. 2e+02;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 2 VRWH 5
 Db 2 VRWH 5
 RESULT 43
 AAR25286
 ID AAR25286 standard; peptide; 12 AA.
 XX AC AAR25286;
 XX DT 14-OCT-1997 (first entry)
 XX DE Antibody D32.39 epitope #53.
 XX KW PCR; polymerase chain reaction; primer; amplify; lacI; headpiece domain;
 XX KW random peptide library; DNA binding protein; receptor ligand; dimer;
 XX KW fusion protein; epitope; antibody.
 XX OS Synthetic.

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XX FH Key Location/Qualifiers
XX FT Region 3..8
XX FT /note= "D32.39 recognition site"
XX PN WO9640987-A1.
XX PD 19-DEC-1996.
XX PF 07-JUN-1996; 96WO-US09809.
XX PR 26-OCT-1995; 95US-0548540.
XX PR 07-JUN-1995; 95US-0484090.
XX PA (AFFY-) AFFYMAX TECHNOLOGIES NV.
XX PI Cull MG, Gates CM, Miller JF, Schatz PJ, Stemmer WPC;
XX WPI; 1997-087065/08.
XX Random peptide library and affinity enrichment methods for screening
XX it - useful to identify peptide(s) that bind receptor mols. of
XX interest, useful for therapeutic, diagnostic and related purposes
XX Example 4; Fig 3b; 149pp; English.
XX AA252311-W25288 represent epitopes for the antibody D32.39. These
XX sequences were isolated by a method of the invention to isolate a DNA
XX binding protein, or a peptide with specific affinity for a receptor. The
XX method comprises providing a recombinant DNA vector encoding a peptide
XX having specific affinity for a receptor. A library of oligonucleotides
XX encoding different potential DNA binding proteins is inserted in-frame
XX into the vector to create a fusion protein library. Host cells are
XX transformed, and cultured to express the fusion protein. If a fusion
XX protein comprises a potential DNA binding protein with affinity for the
XX vector, the fusion protein binds to the vector to form a complex. The
XX host cells are lysed to isolate the complexes which are contacted with a
XX receptor to induce peptide binding to the receptor. The random peptide
XX library and the methods for screening it can be used to identify peptides
XX that bind receptor molecules of interest. The peptides can be used for
XX therapeutic, diagnostic and related purposes, e.g. to bind the receptor,
XX or an analogue, and so inhibit or promote the activity of the receptor.
XX The method of affinity enrichment allows a very large library of peptides
XX to be screened, and by identifying the peptide de novo, the sequence or
XX structure of the receptor molecule or the natural binding partner of the
XX receptor need not be known.
XX SQ Sequence 12 AA;
Query Match 62.2%; Score 28; DB 18; Length 12;
Best Local Similarity 100.0%; Pred. No. 2e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2 VRWH 5
Db 2 VRWH 5
RESULT 44
AAB60032
ID AAB60032 standard; Peptide; 12 AA.
XX AC AAB60032;
XX 05-NOV-2001 (first entry)
XX Internalising peptide SEQ ID NO: 47.
XX Internalising peptide; transport; apoptosis; arthritis; cancer;
XX stem cell; cell differentiation; immune response stimulation;
XX HIV vaccine.
XX Synthetic.
OS

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XX WO200115511-A2.
XX 08-MAR-2001.
XX 31-AUG-2000; 2000WO-US24034.
XX 01-SEP-1999; 99US-0151980.
XX 13-MAR-2000; 2000US-0188944.
XX (UYPI-) UNIV PITTSBURGH.
XX Robbins PD, Mi Z, Frizzell R, Glorioso JC, Gambotto A;
XX WPI; 2001-273309/28.
XX Peptides that facilitate uptake and cytoplasmic and/or nuclear
XX transport of proteins, DNA and viruses, useful, e.g. for facilitating
XX uptake of antigens in immunogenic compositions -
XX Claim 1; Page 123; 129pp; English.
XX The present invention provides the sequences of 75 peptides which
XX facilitate the uptake and transport of viruses, proteins and nucleic
XX acids. These internalising peptides can be used for transport into the
XX cytoplasm or the nucleus. They are useful for facilitating uptake into
XX the cell, inducing apoptosis, for example in the treatment of arthritis
XX and cancer, to expand a population of stem cells or differentiated cells,
XX to stimulate cell differentiation, facilitate the integration of AAV into
XX the genome of a cell, and to stimulate an immune response, for example in
XX the case of a HIV vaccine. The present sequence is one of the peptides of
XX the invention.
XX SQ Sequence 12 AA;
Query Match 62.2%; Score 28; DB 22; Length 12;
Best Local Similarity 60.0%; Pred. No. 2e+02;
Matches 3; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1 WVRWH 5
Db 3 WTPWH 7
RESULT 45
ABP46201
ID ABP46201 standard; peptide; 13 AA.
XX AC ABP46201;
XX 19-AUG-2002 (first entry)
XX Human BlyS binding scFv VH CDR3 SEQ ID 2212.
XX BlyS; B lymphocyte stimulator; TNF superfamily; human; cytostatic;
XX tumour necrosis factor; B cell proliferation; B cell differentiation;
XX immunosuppressive; immunostimulant; immunomodulatory; antirheumatic;
XX antiAIDS; vaccine; cancer; immune; autoimmune disorder; immunodeficiency;
XX systemic lupus erythematosus; rheumatoid arthritis; CVID; AIDS;
XX common variable immunodeficiency; acquired immunodeficiency syndrome.
XX OS Homo sapiens.
XX WO200202641-A1.
XX 10-JAN-2002.
XX 15-JUN-2001; 2001WO-US19110.
XX 16-JUN-2000; 2000US-212210P.
XX 17-OCT-2000; 2000US-240816P.
XX 16-MAR-2001; 2001US-276248P.
XX 21-MAR-2001; 2001US-277379P.
XX PR

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PR 25-MAY-2001; 2001US-293499P.
XX (HUMA-) HUMAN GENOME SCI INC.
PA (CAME-) CAMBRIDGE ANTIBODY TECHNOLOGY.
XX
XX Ruben SM, Barash SC, Choi GH, Vaughan T, Hilbert D;
XX WPI; 2002-114799/15.
XX
XX Antibodies against B Lymphocyte Stimulating polypeptides, useful for
PT the diagnosis and treatment of cancers and immune disorders -
XX
XX Claim 2; Page 2952; 3148pp; English.
XX
XX This invention describes novel antibodies that immunospecifically bind to
CC B Lymphocyte Stimulator (BLyS) polypeptides. BLyS is a member of the
CC tumour necrosis factor (TNF) super family and induces B cell
CC proliferation and differentiation. The antibodies of the invention have
CC cytostatic, immunosuppressive, immunostimulant, immunomodulatory,
CC antirheumatic and antiAIDS activity and can be used in vaccines to
CC inhibit the expression and activity of BLyS. The antibodies bind to BLyS
CC and so may be used to detect and quantitate the presence of BLyS in
CC biological samples and may be used in this way to diagnose disease
CC associated with aberrant expression of BLyS. They may also be
CC administered to treat diseases associated with aberrant BLyS expression
CC and activity such as cancer, immune, and autoimmune disorders and
CC diseases, e.g. systemic lupus erythematosus, rheumatoid arthritis,
CC immunodeficiency (e.g. common variable immunodeficiency (CVID) and
CC acquired immunodeficiency syndrome (AIDS)). ABP43990-ABP47228 represent
CC the antibodies and fragments of the antibodies described in the method
XX of the invention.
XX
SQ Sequence 13 AA;

Query Match 62.2%; Score 28; DB 23; Length 13;
Best Local Similarity 50.0%; Pred. No. 2.2e+02;
Matches 3; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 WVRWHF 6
| | | | |
Db 6 WPNWYF 11

Search completed: December 12, 2003, 10:29:02
Job time : 31.3 secs

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OM protein - protein search, using sw model

Run on: December 3, 2003, 11:44:55 ; Search time 7.33333 Seconds
(without alignments)
38.476 Million cell updates/sec

Title: US-09-912-414-2

Perfect score: 45

Sequence: 1 WVRWHF 6

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 127863 seqs, 47026705 residues

Total number of hits satisfying chosen parameters: 795

Minimum DB seq length: 0

Maximum DB seq length: 15

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : SwissProt_41.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	22	48.9	9	1 LITR_PHYRO	P08946 phyllomedusa
2	22	48.9	11	1 RANC_RANPI	P08951 rana pipiens
3	20	44.4	9	1 LITO_LITAU	P08945 litoria aur
4	20	44.4	13	1 BOML_PSEGU	P42991 pseudophryn
5	19.5	43.3	5	1 UF01_MOUSE	P38639 mus musculu
6	19	42.2	10	1 LABA_JATMU	P13270 jatropha mu
7	18	40.0	9	1 COM_CONVE	P33047 conus ventr
8	18	40.0	13	1 YENP_PHOLU	P41122 photorhabdu
9	17	37.8	11	1 MLG_THETS	P41989 theromyzon
10	17	37.8	13	1 E121_LITRU	P82097 litoria rub
11	17	37.8	13	1 E122_LITRU	P82098 litoria rub
12	17	37.8	13	1 TML_RANTE	P57104 rana tempor
13	16	35.6	8	1 ACI_THUAL	P18691 thunnus alb
14	16	35.6	13	1 MIA_ANOCA	P41589 anolis caro
15	16	35.6	13	1 MIA_CAMDR	P01198 camelus dro
16	16	35.6	14	1 LPW_RHIME	P18854 rhizobium m
17	15	33.3	7	1 TPFY_PACDA	P83455 pachymedusa
18	15	33.3	10	1 AESGL_AGRAE	P83465 agrocye ae
19	15	33.3	12	1 RFI_CONSP	P58805 conus spuri
20	15	33.3	15	1 CX3B_CONOU	P58842 conus querc
21	15	33.3	15	1 GNL2_PINPS	P81107 pinus pinas
22	14	31.1	10	1 BPP2_BOTJA	P01022 bothrops ja
23	14	31.1	10	1 FARP_MYTED	P42560 mytilus edu
24	14	31.1	10	1 GRP_RANRI	P23260 rana ridibu
25	14	31.1	11	1 CA22_LITCI	P82088 litoria cit
26	14	31.1	11	1 CA42_LITCI	P82092 litoria cit
27	14	31.1	13	1 BPP1_BOTJA	P01020 bothrops ja
28	14	31.1	13	1 CXA2_CONGE	P01520 conus geogr
29	14	31.1	14	1 ALYT_ALYOB	P08944 alytes obst
30	14	31.1	14	1 MAST_PABID	P42716 parapolybia
31	14	31.1	14	1 MAST_VESBA	P1654 vespa basal
32	14	31.1	14	1 MAST_VESKA	P01515 vespa xanth
33	14	31.1	15	1 AH2_FRUSE	P29260 prunus xero

34	14	31.1	15	1 DCMW_PSECH	P19917 pseudomonas
35	14	31.1	15	1 MK2A_PALPR	P80409 palomena pr
36	14	31.1	15	1 RM12_YEAST	P36522 saccharomyc
37	13	28.9	5	1 BPP7_BOTIN	P30425 bothrops in
38	13	28.9	9	1 NEF_HVIZ8	P12481 human immun
39	13	28.9	10	1 APE_CAFGI	P80474 capnocytoph
40	13	28.9	10	1 GONI_ALLMI	P37041 alligator m
41	13	28.9	10	1 GON2_CHEPR	P80678 chelyosoma
42	13	28.9	10	1 GON2_CHICK	P37043 gallus gall
43	13	28.9	10	1 GON3_ONCKE	P20367 oncorhynch
44	13	28.9	10	1 NO40_TOBAC	P55962 nicotiana t
45	13	28.9	12	1 UP01_CAEEL	P55954 caenorhabdi

ALIGNMENTS

RESULT 1
LITR_PHYRO STANDARD; PRT; 9 AA.
AC P08946;
DT 01-NOV-1988 (Rel. 09, Created)
DT 01-FEB-1994 (Rel. 28, Last sequence update)
DT 15-SEP-2003 (Rel. 42, Last annotation update)
DE Rhodei-litorin.
OS Phyllomedusa rohdei (Rhode's leaf frog).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Neobatrachia; Bufonoidea; Hylidae;
OC Phyllomedusinae; Phyllomedusa.
OX NCBI_TaxID=8394;
RN [1]
RP SEQUENCE.
RC TISSUE=Skin secretion;
RX MEDLINE=85127560; PubMed=3838283;
RA Barra D., Espamer G.F., Simmaco M., Bossa F., Melchiorri P.,
RA Espamer V.;
RT "Rhodei-litorin: a new peptide from the skin of Phyllomedusa rohdei."
RL FEBS Lett. 182:53-56(1985).
CC -I- SUBCELLULAR LOCATION: Secreted.
CC -I- TISSUE SPECIFICITY: Skin.
CC -I- SIMILARITY: BELONGS TO THE BOMBESIN/NEUROMEDIN B/RANATENSIN
CC -I- FAMILY.
DR PIR; S07241; S07241.
DR InterPro; IPR000874; Bombesin.
DR Pfam; PF02044; Bombesin; 1.
DR PROSITE; PS00257; BOMBESIN; 1.
DR Amphibian defense peptide; Bombesin family; Amidation;
KW Pyrrolidone carboxylic acid.
FT MOD_RES 1 1 PYRROLIDONE CARBOXYLIC ACID.
FT MOD_RES 9 9 AMIDATION.
SQ SEQUENCE 9 AA; 1090 MW; 4ECCC1E861ADC377 CRC64;
Query Match 48.9%; Score 22; DB 1; Length 9;
Best Local Similarity 50.0%; Pred. No. 1.3e+05;
Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 WVRWHF 6
Db 3 WATGRF 8

RESULT 2
RANC_RANPI STANDARD; PRT; 11 AA.
AC P08951;
DT 01-NOV-1988 (Rel. 09, Created)
DT 01-NOV-1988 (Rel. 09, Last sequence update)
DT 15-SEP-2003 (Rel. 42, Last annotation update)
DE Ranatensin-C.
OS Rana pipiens (Northern leopard frog).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Neobatrachia; Ranioidea; Rana.
OX NCBI_TaxID=8404;

RN SEQUENCE.
 RP TISSUE=Skin secretion;
 RX MEDLINE=84131098; PubMed=6141890;
 RA Nakajima T.;
 RL Unpublished results, cited by:
 RL Erspamer V., Erspamer G.F., Mazzanti G., Edean R.;
 RL Comp. Biochem. Physiol. 77C:99-108(1984).
 CC -!- SUBCELLULAR LOCATION: Secreted.
 CC -!- TISSUE SPECIFICITY: Skin.
 CC -!- SIMILARITY: BELONGS TO THE BOMBESIN/NEUROMEDIN B/RANATENSIN FAMILY.
 CC InterPro: IPR000874; Bombesin.
 DR Pfam: PF02044; Bombesin; 1.
 DR PROSITE: PS00257; BOMBESIN; 1.
 KW Amphibian defense peptide; Bombesin family; Amidation.
 FT MOD RES 11 11
 SQ SEQUENCE 11 AA; 1304 MW; D6C9885A61ADC366 CRC64;
 Query Match 48.9%; Score 22; DB 1; Length 11;
 Best Local Similarity 50.0%; Pred. No. 2e+02; Mismatches 0; Indels 3; Gaps 0;
 Matches 3; Conservative 0; Mismatches 0; Indels 3; Gaps 0;
 Qy 1 WVRWHF 6
 Db 5 WATGHP 10
 RESULT 3
 LITO LITAU STANDARD; PRT; 9 AA.
 ID LITO LITAU STANDARD; PRT; 9 AA.
 AC P08945;
 DT 01-NOV-1988 (Rel. 09, Created)
 DT 01-FEB-1994 (Rel. 28, Last sequence update)
 DT 15-SEP-2003 (Rel. 42, Last annotation update)
 DE Litorin.
 OS Litoria aurea (Green and golden bell frog).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 CC Amphibia; Batrachia; Anura; Neobatrachia; Bufonoidea; Hylidae;
 CC Pelodyadinae; Litoria.
 OX NCBI_TaxID=8371;
 RN [1]
 RP SEQUENCE.
 RC TISSUE=Skin secretion;
 RX MEDLINE=75187011; PubMed=1140241;
 RA Anastasi A., Erspamer V., Edean R.;
 RT "Amino acid composition and sequence of litorin, a bombesin-like nonapeptide from the skin of the Australian leptodactylid frog Litoria aurea";
 RT Litoria aurea";
 RL Experientia 31:510-511(1975).
 RN [2]
 RP SEQUENCE (METHYLATED VARIANT).
 RC TISSUE=Skin secretion;
 RX MEDLINE=78003546; PubMed=908397;
 RA Anastasi A., Montecucchi P.C., Angelucci F., Erspamer V., Edean R.;
 RT "Glu(Ome)3-litorin, the second bombesin-like peptide occurring in methanol extracts of the skin of the Australian frog Litoria aurea";
 RL Experientia 33:1289-1289(1977).
 CC -!- SUBCELLULAR LOCATION: Secreted.
 CC -!- TISSUE SPECIFICITY: Skin.
 CC -!- SIMILARITY: BELONGS TO THE BOMBESIN/NEUROMEDIN B/RANATENSIN FAMILY.
 CC InterPro: IPR000874; Bombesin.
 DR Pfam: PF02044; Bombesin; 1.
 DR PROSITE: PS00257; BOMBESIN; 1.
 KW Amphibian defense peptide; Bombesin family; Amidation; Methylation;
 FT MOD RES 1 1 PYRROLIDONE CARBOXYLIC ACID.
 FT MOD RES 2 2 METHYLATION (PARTIAL).
 FT MOD RES 9 9 AMIDATION.
 SQ SEQUENCE 9 AA; 1103 MW; D7CCCIE862CDC366 CRC64;

Query Match 44.4%; Score 20; DB 1; Length 9;
 Best Local Similarity 50.0%; Pred. No. 1.3e+05; Mismatches 3; Indels 0; Gaps 0;
 Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 Qy 1 WVRWHF 6
 Db 3 WATGHP 8
 RESULT 4
 BOML PSEGU STANDARD; PRT; 13 AA.
 ID BOML PSEGU STANDARD; PRT; 13 AA.
 AC P42931;
 DT 01-NOV-1995 (Rel. 32, Created)
 DT 01-NOV-1995 (Rel. 32, Last sequence update)
 DT 15-SEP-2003 (Rel. 42, Last annotation update)
 DE Bombesin-like peptide 1 (PG-L).
 OS Pseudophryne guentheri (Guenther's toadlet).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 CC Amphibia; Batrachia; Anura; Neobatrachia; Bufonoidea; Myobatrachidae;
 CC Myobatrachinae; Pseudophryne.
 OX NCBI_TaxID=30349;
 RN [1]
 RP SEQUENCE.
 RC TISSUE=Skin secretion;
 RX MEDLINE=90287814; PubMed=2356157;
 RA Salmaco M., Severini C., de Biase D., Barra D., Bossa F., Roberts J.D., Melchiorri P., Erspamer V.;
 RT "Six novel tachykinin- and bombesin-related peptides from the skin of the Australian frog Pseudophryne guentheri";
 RL Peptides 11:299-304(1990).
 CC -!- SUBCELLULAR LOCATION: Secreted.
 CC -!- TISSUE SPECIFICITY: Skin.
 CC -!- SIMILARITY: BELONGS TO THE BOMBESIN/NEUROMEDIN B/RANATENSIN FAMILY.
 CC InterPro: IPR000874; Bombesin.
 DR Pfam: PF02044; Bombesin; 1.
 DR PROSITE: PS00257; BOMBESIN; 1.
 KW Amphibian defense peptide; Bombesin family; Amidation;
 FT MOD RES 1 1 PYRROLIDONE CARBOXYLIC ACID.
 FT MOD RES 13 13 AMIDATION.
 SQ SEQUENCE 13 AA; 1372 MW; D6DE0D24BD98C366 CRC64;
 Query Match 44.4%; Score 20; DB 1; Length 13;
 Best Local Similarity 50.0%; Pred. No. 4.9e+02; Mismatches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 Qy 1 WVRWHF 6
 Db 7 WATGHP 12
 RESULT 5
 UF01 MOUSE STANDARD; PRT; 5 AA.
 ID UF01 MOUSE STANDARD; PRT; 5 AA.
 AC P38639;
 DT 01-OCT-1994 (Rel. 30, Created)
 DT 01-OCT-1994 (Rel. 30, Last sequence update)
 DT 01-FEB-1995 (Rel. 31, Last annotation update)
 DE Unknown protein from 2D-page of fibroblasts (P19) (Fragment).
 OS Mus musculus (Mouse).
 CC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 CC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE.
 RC TISSUE=Fibroblast;
 RX MEDLINE=95009907; PubMed=7523108;
 RA Merrick B.A., Patterson R.M., Wichter L.L., He C., Selkirk J.K.;
 RT "Separation and sequencing of familial and novel murine proteins using preparative two-dimensional gel electrophoresis";

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RL Electrophoresis 15:735-745(1994).
CC -1- MISCELLANEOUS: ON THE 2D-GEL THE DETERMINED PI OF THIS UNKNOWN
CC PROTEIN IS: 6.6, ITS MW IS: 19 kDa.
FT NON TER 5
SQ SEQUENCE 5 AA; 717 MW; 7364087043100000 CRC64;

Query Match 43.3%; Score 19.5; DB 1; Length 5;
Best Local Similarity 50.0%; Pred. No. 1.3e+05;
Matches 3; Conservative 1; Mismatches 0; Indels 1; Gaps 1;

QY 1 WVRW 4
DB 1 WIGRW 5

RESULT 6
LABA_JATMU STANDARD; PRT; 10 AA.
AC P13270;
DT 01-JAN-1990 (Rel. 13, Created)
DT 01-JAN-1990 (Rel. 13, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Labaditin.
OS Jatropha multifida (Physic nut).
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosidae;
OC eurosids I; Malpighiales; Euphorbiaceae; Jatropha.
OX NCBI_TaxID=3996;
RN [1]
RP SEQUENCE.
RC TISSUE=Latex;
RA Kosasi S., van der Sluis W.G., Boelens R., T'Hart L.A., Labadie R.P.;
RT "Labaditin, a novel cyclic decapeptide from the latex of Jatropha
RT multifida L. (Euphorbiaceae). Isolation and sequence determination
RT by means of two-dimensional NMR.";
RL FEBS Lett. 256:91-96(1989).
CC -1- FUNCTION: LABADITIN IS AN ACTIVE PEPTIDE WHICH INHIBITS THE
CC CLASSICAL PATHWAY OF COMPLEMENT ACTIVATION IN VITRO. ACTIVITY
CC SEEMS TO BE BASED ON AN INTERACTION WITH C1.
CC -1- PTM: This is a cyclic peptide.
CC -1- DISEASE: LATEX OF THIS PLANT IS USED IN FOLKLORIC MEDICINE FOR
CC TREATMENT OF INFECTED WOUNDS, SKINS INFECTIONS AND SCABIES.
SQ SEQUENCE 10 AA; 1089 MW; D98AAD6362D1B362 CRC64;

Query Match 42.3%; Score 19; DB 1; Length 10;
Best Local Similarity 50.0%; Pred. No. 5.6e+02;
Matches 2; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 WVRW 4
DB 4 WTVW 7

RESULT 7
COW_CONVE STANDARD; PRT; 9 AA.
AC P83047;
DT 16-OCT-2001 (Rel. 40, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Contryphan-Vn.
OS Conus ventricosus (Mediterranean cone).
OC Eukaryota; Metazoa; Mollusca; Gastropoda; Orthogastropoda;
OC Apogastropoda; Caenogastropoda; Sorbeoconcha; Hypsogastropoda;
OC Neogastropoda; Conoidea; Conidae; Conus.
OX NCBI_TaxID=117992;
RN [1]
RP SEQUENCE, SYNTHESIS, AND MASS SPECTROMETRY.
RC TISSUE=Venom;
RX MEDLINE=21547785; PubMed=11688995;
RA Massilia G.R., Schinina M.E., Ascenzi P., Politicelli F.;
RT "Contryphan-Vn: a novel peptide from the venom of the Mediterranean
RT snail Conus ventricosus.";
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RL Biochem. Biophys. Res. Commun. 288:908-913(2001).
CC -1- SUBCELLULAR LOCATION: Secreted.
CC -1- TISSUE SPECIFICITY: Expressed by the venom duct.
CC -1- MASS SPECTROMETRY: MW=1088.6; METHOD=MALDI.
CC -1- SIMILARITY: BELONGS TO THE CONTRYPHAN FAMILY.
KW Toxin; Amidation; D-amino acid.
FT DISULFID 3 9
FT MOD_RES 5 5 D-TRYPTOPHAN.
FT MOD_RES 9 9 AMIDATION.
SQ SEQUENCE 9 AA; 1091 MW; 8D38676323676EBA CRC64;

Query Match 40.0%; Score 18; DB 1; Length 9;
Best Local Similarity 50.0%; Pred. No. 1.3e+05;
Matches 2; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 WVRW 4
DB 5 WKPW 8

RESULT 8
YPNP_PHOLU STANDARD; PRT; 13 AA.
AC P41122;
DT 01-FEB-1995 (Rel. 31, Created)
DT 01-FEB-1995 (Rel. 31, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Hypothetical protein in pnp 3' region (ORF3) (Fragment).
OS Photobacterium luminescens (Xenorhabdus luminescens).
OC Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
OC Enterobacteriaceae; Photobacterium.
OX NCBI_TaxID=29488;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=K122;
RX MEDLINE=94266731; PubMed=8206856;
RA Clarke D.J., Dowds B.C.A.;
RT "The gene coding for polynucleotide phosphorylase in Photobacterium sp.
RT strain K122 is induced at low temperatures.";
RL J. Bacteriol. 176:3775-3784(1994).
CC -----
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
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CC or send an email to license@isb-sib.ch).
CC -----
DR EMBL; X76069; CAA53672.1; -.
KW Hypothetical protein.
FT NON_TER 13 13
SQ SEQUENCE 13 AA; 1634 MW; 64774AF6267A364 CRC64;

Query Match 40.0%; Score 18; DB 1; Length 13;
Best Local Similarity 50.0%; Pred. No. 1.1e+03;
Matches 2; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 WVRW 4
DB 4 FLRW 7

RESULT 9
MLG_THETS STANDARD; PRT; 11 AA.
AC P41989;
DT 01-NOV-1995 (Rel. 32, Created)
DT 01-NOV-1995 (Rel. 32, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Melanotropin gamma (Gamma-melanocyte stimulating hormone) (Gamma-MSH).
OS Thermomyza tessalatum (Leech).
OC Eukaryota; Metazoa; Annelida; Clitellata; Hirudinida; Hirudinea;
```

OC Rhynchobdellida; Glossiphoniidae; Theromyzon.
 OX NCBI_TaxID=13286;
 RN [1]
 RP SEQUENCE.
 RC TISSUE=Brain;
 RX MEDLINE=94298944; PubMed=8026574;
 RA Salzet M., Watter C., Bulet P., Malecha J.,
 RT "Isolation and structural characterization of a novel peptide related
 RT to gamma-melanocyte stimulating hormone from the brain of the leech
 RT Theromyzon tessellatum.";
 RL FEBS Lett. 348:102-106(1994).
 CC -!- SIMILARITY: BELONGS TO THE POMC FAMILY.
 DR PIR, S45698.
 KW Hormone; Amidation.
 FT MOD RES 11 11 AMIDATION.
 SQ SEQUENCE 11 AA; 1486 MW; 2DB8FACE6409C1E8 CRC64;
 Query Match 37.8%; Score 17; DB 1; Length 11;
 Best Local Similarity 50.0%; Pred. No. 1.3e+03;
 Matches 3; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
 QY 1 VWRWHF 6
 Db 1 YVMGHF 6

RESULT 10
 E121 LITRU
 ID E121 LITRU STANDARD; PRT; 13 AA.
 AC P82097;
 DT 28-FEB-2003 (Rel. 41, Created)
 DT 28-FEB-2003 (Rel. 41, Last sequence update)
 DT 15-SEP-2003 (Rel. 42, Last annotation update)
 DE Electrin 2.1.
 OS Litoria rubella (Desert tree frog).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Amphibia; Batrachia; Anura; Neobatrachia; Bufonoidea; Hylidae;
 OC Pelodyadinae; Litoria.
 OX NCBI_TaxID=104895;
 RN [1]
 RP SEQUENCE.
 RC TISSUE=Skin secretion;
 RA Wabnitz P.A., Bowie J.H., Tyler M.J., Wallace J.C.;
 RT "Peptides from the skin glands of the Australian buzzing tree frog
 RT Litoria electrica. Comparison with the skin peptides from Litoria
 RT rubella.";
 RL Aust. J. Chem. 52:639-645(1999).
 CC -!- SUBCELLULAR LOCATION: Secreted.
 CC -!- TISSUE SPECIFICITY: Skin.
 KW Amphibian defense peptide; Amidation.
 FT MOD RES 13 13 AMIDATION.
 SQ SEQUENCE 13 AA; 1599 MW; C1808EF326F57322 CRC64;
 Query Match 37.8%; Score 17; DB 1; Length 13;
 Best Local Similarity 66.7%; Pred. No. 1.5e+03;
 Matches 2; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
 QY 2 VWRW 4
 Db 6 VKW 8

RESULT 11
 E122 LITRU
 ID E122 LITRU STANDARD; PRT; 13 AA.
 AC P82098;
 DT 28-FEB-2003 (Rel. 41, Created)
 DT 28-FEB-2003 (Rel. 41, Last sequence update)
 DT 15-SEP-2003 (Rel. 42, Last annotation update)
 DE Electrin 2.2.
 OS Litoria rubella (Desert tree frog).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Amphibia; Batrachia; Anura; Neobatrachia; Bufonoidea; Hylidae;

OC Pelodyadinae; Litoria.
 OX NCBI_TaxID=104895;
 RN [1]
 RP SEQUENCE.
 RC TISSUE=Skin secretion;
 RA Wabnitz P.A., Bowie J.H., Tyler M.J., Wallace J.C.;
 RT "Peptides from the skin glands of the Australian buzzing tree frog
 RT Litoria electrica. Comparison with the skin peptides from Litoria
 RT rubella.";
 RL Aust. J. Chem. 52:639-645(1999).
 CC -!- SUBCELLULAR LOCATION: Secreted.
 CC -!- TISSUE SPECIFICITY: Skin.
 KW Amphibian defense peptide; Amidation.
 FT MOD RES 13 13 AMIDATION.
 SQ SEQUENCE 13 AA; 1598 MW; C1808EF33B357322 CRC64;
 Query Match 37.8%; Score 17; DB 1; Length 13;
 Best Local Similarity 66.7%; Pred. No. 1.5e+03;
 Matches 2; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
 QY 2 VWRW 4
 Db 6 VKW 8

RESULT 12
 TEML RANTE
 ID TEML RANTE STANDARD; PRT; 13 AA.
 AC P57104;
 DT 16-OCT-2001 (Rel. 40, Created)
 DT 16-OCT-2001 (Rel. 40, Last sequence update)
 DT 15-SEP-2003 (Rel. 42, Last annotation update)
 DE Temporin L.
 OS Rana temporaria (European common frog).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Amphibia; Batrachia; Anura; Neobatrachia; Ranioidea; Ranidae; Rana.
 OX NCBI_TaxID=8407;
 RN [1]
 RP SEQUENCE.
 RC TISSUE=Skin secretion;
 RX MEDLINE=97175050; PubMed=9022710;
 RA Stimmaco M., Mignogna G., Canofeni S., Miele R., Mangoni M.L.,
 RA Barra D.;
 RT "Temporins, antimicrobial peptides from the European red frog Rana
 RT temporaria.";
 RL Eur. J. Biochem. 242:788-792(1996).
 CC -!- FUNCTION: HAS ANTIBACTERIAL ACTIVITY AGAINST GRAM-NEGATIVE AND
 CC -!- GRAM-POSITIVE BACTERIA.
 CC -!- SUBCELLULAR LOCATION: Secreted.
 CC -!- TISSUE SPECIFICITY: Skin.
 CC -!- SIMILARITY: Belongs to the brevinin family.
 KW Amphibian defense peptide; Antibiotic; Amidation.
 FT MOD RES 13 13 AMIDATION.
 SQ SEQUENCE 13 AA; 1641 MW; 9EBDCB1FAFF7C325 CRC64;
 Query Match 37.8%; Score 17; DB 1; Length 13;
 Best Local Similarity 50.0%; Pred. No. 1.5e+03;
 Matches 2; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
 QY 1 VWRW 4
 Db 1 FVQW 4

RESULT 13
 ACI THUAL
 ID ACI THUAL STANDARD; PRT; 8 AA.
 AC P18691;
 DT 01-NOV-1990 (Rel. 16, Created)
 DT 01-NOV-1990 (Rel. 16, Last sequence update)
 DT 01-NOV-1990 (Rel. 16, Last annotation update)
 DE Angiotensin-converting enzyme inhibitor.
 OS Thunnus albacares (Yellowfin tuna) (Neothunnus macropterus).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
OC Acanthomorpha; Acanthopterygii; Percomorpha; Perciformes; Scombroidei;
OC Scombridae; Thunnus.
ON NCBI_TaxID=8236;
RN [1]
RP SEQUENCE.
RC TISSUE=Muscle;
RX MEDLINE=88326322; PubMed=3415688;
RA Kohama Y., Matsumoto S., Oka H., Teramoto T., Okabe M., Mimura T.;
RT "Isolation of angiotensin-converting enzyme inhibitor from tuna
muscle."
RL Biochem. Biophys. Res. Commun. 155:332-337(1988).
DR PIR; A31570; A31570.
SQ SEQUENCE 8 AA; 953 MW; 6AA863733051F1B7 CRC64;

Query Match 35.6%; Score 16; DB 1; Length 8;
Best Local Similarity 33.3%; Pred. No. 1.3e+05;
Matches 1; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 RW 4
DB : :
4 IKW 6

RESULT 14
MLA_ANOCA STANDARD; PRT; 13 AA.
ID MLA_ANOCA
AC P41589;
DT 01-NOV-1995 (Rel. 32, Created)
DT 01-NOV-1995 (Rel. 32, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Melanotropin alpha (Alpha-MSH).
OS Anolis carolinensis (Green anole) (American chameleon).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Lepidosauria; Squamata; Iguania; Iguanidae; Polychrotinae; Anolis.
ON NCBI_TaxID=28377;
RN [1]
RP SEQUENCE.
RC TISSUE=Pituitary;
RX MEDLINE=92270473; PubMed=1667689;
RA Dore R.M., Lancha A., Rand-Weaver M., Jankelow L., Adamczyk D.L.;
RT "Detection of a novel sequence change in the major form of alpha-MSH
isolated from the intermediate pituitary of the reptile, Anolis
carolinensis."
RL Peptides 12:1261-1266(1991).
CC -!- SIMILARITY: BELONGS TO THE POMC FAMILY.
DR InterPro; IPR001941; Mcortin_ACTH.
DR Pfam; PF00976; ACTH_domain; I.
KW Hormone; Amidation.
FT MOD_RES 13 13 AMIDATION.
FT SEQUENCE 13 AA; 1608 MW; FF990A7358BB09C1 CRC64;

Query Match 35.6%; Score 16; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 2.3e+03;
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 RW 4
DB : :
8 RW 9

RESULT 15
MLA_CAMDR STANDARD; PRT; 13 AA.
ID MLA_CAMDR
AC P01198;
DT 21-JUL-1986 (Rel. 01, Created)
DT 21-JUL-1986 (Rel. 01, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Melanotropin alpha (Alpha-MSH).
OS Camelus dromedarius (Dromedary) (Arabian camel), and
OS Equus caballus (Horse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Euthera; Cetartiodactyla; Tylopoda; Camelidae; Camelus.
ON NCBI_TaxID=9838, 5796;
RN [1]
RP SEQUENCE.
RC SPECIES=C.dromedarius;
RX MEDLINE=75146434; PubMed=1125179;
RA Li C.H., Danho W.O., Chung D., Rao A.J.;
RT "Isolation, characterization, and amino acid sequence of
melanotropins from camel pituitary glands.";
RL Biochemistry 14:947-952(1975).
RN [2]
RP SEQUENCE.
RC SPECIES=Horse; TISSUE=Pituitary;
RA Dixon J.S., Li C.H.;
RT "The isolation and structure of alpha-melanocyte-stimulating hormone
from horse pituitaries.";
RL J. Am. Chem. Soc. 82:4568-4572(1960).
CC -!- SIMILARITY: BELONGS TO THE POMC FAMILY.
DR PIR; A01464; MTCMAD.
DR PIR; A91785; MTHOAD.
DR InterPro; IPR001941; Mcortin_ACTH.
DR Pfam; PF00976; ACTH_domain; I.
KW Hormone; Acetylation; Amidation.
FT MOD_RES 1 1 ACETYLATION (IN ABOUT 50% OF CAMEL
MOLECULES).
FT FT
FT MOD_RES 13 13 AMIDATION.
FT SEQUENCE 13 AA; 1624 MW; FF991CA958BB09C1 CRC64;

Query Match 35.6%; Score 16; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 2.3e+03;
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 RW 4
DB : :
8 RW 9

Search completed: December 3, 2003, 11:51:51
Job time : 9.33333 secs

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OM protein - protein search, using sw model

Run on: December 3, 2003, 11:48:05 ; Search time 26.3333 Seconds
(without alignments)
58.797 Million cell updates/sec

Title: US-09-912-414-9
Perfect score: 31
Sequence: 1 WXXWF 6

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 830525 seqs, 258052604 residues

Total number of hits satisfying chosen parameters: 3526

Minimum DB seq length: 0
Maximum DB seq length: 15

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : SPTREMBL 23.*

- 1: sp_archaea.*
- 2: sp_bacteria.*
- 3: sp_fungi.*
- 4: sp_human.*
- 5: sp_invertebrate.*
- 6: sp_mammal.*
- 7: sp_mhc.*
- 8: sp_organelle.*
- 9: sp_phase.*
- 10: sp_plant.*
- 11: sp_rodent.*
- 12: sp_virus.*
- 13: sp_vertebrate.*
- 14: sp_unclassified.*
- 15: sp_rvirus.*
- 16: sp_bacteriap.*
- 17: sp_archaeap.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	21	67.7	9	2 Q9R5M1	Q9r5m1 staphylococ
2	21	67.7	9	9 Q38366	Q38366 bacterioph
3	20	64.5	9	8 Q8SHF0	Q8shf0 chamealeo n
4	20	64.5	12	7 Q7919	Q7919 pseudotroph
5	20	64.5	13	4 Q16406	Q16406 homo sapien
6	20	64.5	15	2 Q53580	Q53580 rhodobacter
7	17	54.8	8	8 Q94VC1	Q94vc1 varanus rud
8	17	54.8	11	8 Q94V77	Q94v77 heloderma s
9	17	54.8	13	4 Q9UDC6	Q9udc6 homo sapien
10	17	54.8	14	10 Q9SAP8	Q9sap8 pisum sativ
11	16	51.6	8	8 Q94VF6	Q94vf6 varanus job
12	16	51.6	8	8 Q8WGD7	Q8wgd7 lomus hirta
13	16	51.6	8	8 Q94V88	Q94v88 varanus tri
14	16	51.6	8	8 Q9TD02	Q9td02 terranatos
15	16	51.6	8	8 Q9T412	Q9t4y2 asterina pe
16	16	51.6	8	8 Q94VJ4	Q94vj4 varanus ben

17	16	51.6	8	8	Q94V91	Q94v91 varanus tim
18	16	51.6	8	8	Q94VE4	Q94ve4 varanus mel
19	16	51.6	8	8	Q94VF9	Q94vf9 varanus ind
20	16	51.6	9	8	Q9T688	Q9t688 gecko gecko
21	16	51.6	9	8	Q94VH4	Q94vh4 varanus gla
22	16	51.6	9	8	Q94VD8	Q94vd8 varanus nil
23	16	51.6	9	8	Q94VI8	Q94vi8 varanus ere
24	16	51.6	9	8	Q94VJ1	Q94vj1 varanus dor
25	16	51.6	9	8	Q8WGE6	Q8wge6 procambarus
26	16	51.6	9	8	Q94VE1	Q94ve1 varanus mer
27	16	51.6	10	2	Q93T35	Q93t35 acinetobact
28	16	51.6	10	8	Q9T8F3	Q9t8f3 liolaemus a
29	16	51.6	10	8	Q9B4W1	Q9b4w1 triturus vu
30	16	51.6	10	8	Q9T8K7	Q9t8k7 liolaemus p
31	16	51.6	10	8	Q9T8N1	Q9t8n1 liolaemus m
32	16	51.6	10	8	Q79903	Q79903 oplurus cuv
33	16	51.6	10	8	Q8WDH0	Q8wdh0 anolis limi
34	16	51.6	10	8	Q8W969	Q8w969 anolis orto
35	16	51.6	10	8	Q8WDH8	Q8wdh8 anolis mest
36	16	51.6	10	8	Q79924	Q79924 elgaria pan
37	16	51.6	10	8	Q9T8T6	Q9t8t6 liolaemus m
38	16	51.6	10	8	Q9T8L3	Q9t8l3 liolaemus l
39	16	51.6	10	8	P92616	P92616 aspidosceli
40	16	51.6	10	8	Q9T8G8	Q9t8g8 liolaemus c
41	16	51.6	10	8	Q9B4X0	Q9b4x0 notophthalm
42	16	51.6	10	8	Q8SHI3	Q8shi3 chamealeo c
43	16	51.6	10	8	Q958K9	Q958k9 rana boylii
44	16	51.6	10	8	Q9TFU9	Q9tfu9 teratoscinc
45	16	51.6	10	8	Q9T8X7	Q9t8x7 phymaturus

ALIGNMENTS

RESULT 1
Q9R5M1 PRELIMINARY; PRT; 9 AA.
AC Q9R5M1;
DT 01-MAY-2000 (TREMELrel. 13, Created)
DT 01-MAY-2000 (TREMELrel. 13, Last sequence update)
DT 01-JUN-2002 (TREMELrel. 21, Last annotation update)
DE 66 kDa cell surface adhesin for heparan sulfate (Fragment).
OS Staphylococcus aureus.
OC Bacteria; Firmicutes; Bacillales; Staphylococcus.
OX NCBI_TaxID=1280;
RN [1]
RP SEQUENCE.
RX MEDLINE=92176005; PubMed=1541563;
RA Liang O.D., Ascencio F., Fransson L.A., Wadstrom T.;
RT "Binding of heparan sulfate to Staphylococcus aureus.";
RL Infect. Immun. 60:899-906(1992).
FT NON_TER 1 1
FT NON_TER 9 9
SQ SEQUENCE 9 AA; 990 MW; 2289DD7337861B3 CRC64;

Query Match 67.7%; Score 21; DB 2; Length 9;
Best Local Similarity 50.0%; Pred. No. 8.3e+05;
Matches 2; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 WXXW 4
| |
Db 2 WTGW 5

RESULT 2
Q38366 PRELIMINARY; PRT; 9 AA.
AC Q38366;
DT 01-NOV-1996 (TREMELrel. 01, Created)
DT 01-NOV-1996 (TREMELrel. 01, Last sequence update)
DT 01-DEC-2001 (TREMELrel. 19, Last annotation update)
DE E gene product (Fragment).
OS Bacteriophage phi-X174.

OC Viruses; ssDNA viruses; Microviridae; Microvirus.
 OX NCBI_TaxID=10847;
 RN [1]

RP SEQUENCE FROM N.A.
 RX MEDLINE=88118956; PubMed=2963134;
 RA Buckley K.J., Hayashi M.;
 RT "Role of premature translational termination in the regulation of
 RL expression of the phiX174 lysis gene."
 RL J. Mol. Biol. 198;599:607(1987).
 DR EMBL; X07809; CAA30668.1; -.
 FT NON_TER 9
 SQ SEQUENCE 9 AA; 1207 MW; C093B37731B36412 CRC64;

Query Match 67.7%; Score 21; DB 9; Length 9;
 Best Local Similarity 50.0%; Pred. No. 8.3e+05;
 Matches 2; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Oy 1 WXXW 4
 Db 4 WTLW 7

RESULT 3

Q8SHFO PRELIMINARY; PRT; 9 AA.
 AC Q8SHFO;
 DT 01-JUN-2002 (TrEMBLrel. 21, Created)
 DT 01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
 DE Cytochrome c oxidase subunit I (Fragment).
 GN COI.
 OS Chamaeleo namaquensis.
 OG Mitochondrion.
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 OC Lepidodactylidae; Squamata; Iguania; Acrodonta; Chamaeleonidae; Chamaeleo.
 OX NCBI_TaxID=179917;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Townsend T.M., Larson A.L.;
 RT "Molecular Phylogenetics and Mitochondrial Genomic Evolution in the
 RT Chamaeleonidae (Reptilia, Squamata)."
 RL Submitted (NOV-2001) to the EMBL/GenBank/DBJ databases.
 DR EMBL; AF448757; AAL90553.1; -.
 KW Mitochondrion.
 FT NON_TER 9
 SQ SEQUENCE 9 AA; 1205 MW; 358CB72733640733 CRC64;

Query Match 64.5%; Score 20; DB 8; Length 9;
 Best Local Similarity 50.0%; Pred. No. 8.3e+05;
 Matches 2; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Oy 1 WXXW 4
 Db 2 WLRW 5

RESULT 4

O77919 PRELIMINARY; PRT; 12 AA.
 AC O77919;
 DT 01-NOV-1998 (TrEMBLrel. 08, Created)
 DT 01-NOV-1998 (TrEMBLrel. 08, Last sequence update)
 DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
 DE MHC class II B locus 4 (Fragment).
 OS Pseudotropheus sp. 'Pseudotropheus trophoeus complex'.
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
 OC Acanthomorpha; Acanthopterygii; Perciformes; Labroidae;
 OC Cichlidae; Pseudotropheus.
 OX NCBI_TaxID=51796;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=98315113; PubMed=9649539;

RA Malaga-Trillo E., Zaleska-Rutczynska Z., McAndrew B., Vincek V.,
 RA Figueroa F., Sultmann H., Klein J.;
 RT "Linkage relationships and haplotype polymorphism among cichlid mhc
 RT class II B loci."
 RL Genetics 149:1527-1537(1998).
 DR EMBL; AF050032; AAC41371.1; -.
 FT NON_TER 1
 FT NON_TER 12
 SQ SEQUENCE 12 AA; 1529 MW; 6C2ABFACD5A5B734 CRC64;

Query Match 64.5%; Score 20; DB 7; Length 12;
 Best Local Similarity 50.0%; Pred. No. 1.7e+03;
 Matches 2; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Oy 1 WXXW 4
 Db 1 WDFW 4

RESULT 5

Q16406 PRELIMINARY; PRT; 13 AA.
 AC Q16406;
 DT 01-NOV-1996 (TrEMBLrel. 01, Created)
 DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
 DT 01-MAY-1999 (TrEMBLrel. 10, Last annotation update)
 DE GHRH-R protein (Fragment).
 GN GHRH-R.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=96001284; PubMed=7559877;
 RA Hashimoto K., Koga M., Motomura T., Kasayama S., Kouhara H.,
 RA Ohnishi T., Arita N., Hayakawa T., Sato B., Kishimoto T.;
 RT "Identification of alternatively spliced messenger ribonucleic acid
 RT encoding truncated growth hormone-releasing hormone receptor in human
 RT pituitary adenomas."
 RL J. Clin. Endocrinol. Metab. 80:2933-2939(1995).
 DR EMBL; S79912; AAD14318.1; -.
 FT NON_TER 1
 SQ SEQUENCE 13 AA; 1612 MW; CE19D7D255D66362 CRC64;

Query Match 64.5%; Score 20; DB 4; Length 13;
 Best Local Similarity 50.0%; Pred. No. 1.8e+03;
 Matches 2; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Oy 1 WXXW 4
 Db 7 WGYW 10

RESULT 6

Q53580 PRELIMINARY; PRT; 15 AA.
 AC Q53580;
 DT 01-NOV-1996 (TrEMBLrel. 01, Created)
 DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
 DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
 DE Light-harvesting complex I alpha polypeptide (Fragment).
 GN PUF4.
 OS Rhodospirillum rubrum (Rhodospirillum rubrum).
 OC Bacteria; Proteobacteria; Alphaproteobacteria; Rhodobacterales;
 OC Rhodobacteraceae; Rhodobacter.
 OX NCBI_TaxID=1061;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=92234963; PubMed=1569029;
 RA Richter P., Brand M., Drews G.;
 RT "Characterization of LHI- and LHI+ Rhodospirillum rubrum mutants."
 RT mutants."

RL J. Bacteriol. 174:3030-3041(1992).
 DR EMBL; S97552; AAC60406.1; -.
 FT NON TER 15
 SQ SEQUENCE 15 AA; 2054 MW; 3561FE413591D31A CRC64;

 Query Match 64.5%; Score 20; DB 2; Length 15;
 Best Local Similarity 50.0%; Pred. No. 2e+03;
 Matches 2; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

 Qy 1 WXXW 4
 Db 8 WKIW 11

 RESULT 7
 ID Q94VC1 PRELIMINARY; PRT; 8 AA.
 AC Q94VC1;
 DT 01-DEC-2001 (TREMBLrel. 19, Created)
 DT 01-DEC-2001 (TREMBLrel. 19, Last sequence update)
 DT 01-DEC-2001 (TREMBLrel. 19, Last annotation update)
 DE Cytochrome c oxidase subunit I (Fragment).
 GN COI.
 OS Varanus rudicollis.
 OG Mitochondrion.
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Lepidosauria; Squamata; Scleroglossa; Anguimorpha; Varanidae; Varanus.
 OX NCBI_TaxID=169851;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Ast J.C.;
 RT "Mitochondrial DNA evidence and evolution in Varanoidea (Squamata).";
 RL Cladistics 17:0-0(2001).
 DR EMBL; AF407521; AAL10116.1; -.
 KW Mitochondrion.
 FT NON TER 8
 SQ SEQUENCE 8 AA; 1053 MW; FE2729DSA36411A6 CRC64;

 Query Match 54.8%; Score 17; DB 8; Length 8;
 Best Local Similarity 66.7%; Pred. No. 8.3e+05;
 Matches 2; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

 Qy 4 WXF 6
 Db 4 WSF 6

 RESULT 8
 ID Q94V77 PRELIMINARY; PRT; 11 AA.
 AC Q94V77;
 DT 01-DEC-2001 (TREMBLrel. 19, Created)
 DT 01-DEC-2001 (TREMBLrel. 19, Last sequence update)
 DT 01-DEC-2001 (TREMBLrel. 19, Last annotation update)
 DE Cytochrome c oxidase subunit I (Fragment).
 GN COI.
 OS Heloderma suspectum (Gila monster).
 OG Mitochondrion.
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Lepidosauria; Squamata; Scleroglossa; Anguimorpha; Helodermatidae;
 OC Heloderma.
 OX NCBI_TaxID=8554;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Ast J.C.;
 RT "Mitochondrial DNA evidence and evolution in Varanoidea (Squamata).";
 RL Cladistics 17:0-0(2001).
 DR EMBL; AF407540; AAL10172.1; -.
 KW Mitochondrion.
 FT NON TER 11
 SQ SEQUENCE 11 AA; 1396 MW; 8E3A6DE0SA36411 CRC64;

 Query Match 54.8%; Score 17; DB 8; Length 11;

Best Local Similarity 66.7%; Pred. No. 4.8e+03;
 Matches 2; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

 Qy 4 WXF 6
 Db 6 WSF 8

 RESULT 9
 ID Q9UDC6 PRELIMINARY; PRT; 13 AA.
 AC Q9UDC6;
 DT 01-MAY-2000 (TREMBLrel. 13, Created)
 DT 01-MAY-2000 (TREMBLrel. 13, Last sequence update)
 DT 01-JUN-2002 (TREMBLrel. 21, Last annotation update)
 DE ENDOTHELIUM-derived RELATING factor, nitric oxide synthase (Fragment).
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Euthera; Primates; Catarrhini; Hominidae; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=93054573; PubMed=1385404;
 RA Janssens S.P., Simuchi A., Quertermous T., Bloch D.B., Bloch K.D.;
 RT "Cloning and expression of a cDNA encoding human endothelium-derived
 RT relating factor/nitric oxide synthase.";
 J. Biol. Chem. 267:22694-22694(1992).
 FT NON TER 1
 FT NON TER 13
 SQ SEQUENCE 13 AA; 1390 MW; 3231B6DFEC7EB867 CRC64;

 Query Match 54.8%; Score 17; DB 4; Length 13;
 Best Local Similarity 66.7%; Pred. No. 5.5e+03;
 Matches 2; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

 Qy 4 WXF 6
 Db 1 WAF 3

 RESULT 10
 ID Q9SAP8 PRELIMINARY; PRT; 14 AA.
 AC Q9SAP8;
 DT 01-MAY-2000 (TREMBLrel. 13, Created)
 DT 01-MAY-2000 (TREMBLrel. 13, Last sequence update)
 DT 01-MAY-2000 (TREMBLrel. 13, Last annotation update)
 DE LHCPII (14AA) (Fragment).
 OS Pisum sativum (Garden pea).
 OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
 OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosidae;
 OC eurosids I; Fabales; Fabaceae; Papilionoideae; Viciaeae; Pisum.
 OX NCBI_TaxID=3888;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=var. Alaska;
 RA Dobres M.S., Adler M.L., Thompson W.F.;
 RT "Sequence of the 3' untranslated region of a pea.";
 RL Nucleic Acids Res. 0:0-0(1988).
 DR EMBL; X06822; CAA29970.1; -.
 FT NON TER 1
 FT NON TER 14
 SQ SEQUENCE 14 AA; 1537 MW; D55621E9906EA7AD CRC64;

 Query Match 54.8%; Score 17; DB 10; Length 14;
 Best Local Similarity 66.7%; Pred. No. 5.8e+03;
 Matches 2; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

 Qy 4 WXF 6
 Db 4 WAF 6

RESULT 11

Q94VF6 PRELIMINARY; PRT; 8 AA.
 ID Q94VF6
 AC Q94VF6;
 DT 01-DEC-2001 (TrEMBLrel. 19, Created)
 DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
 DE 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
 DE Cytochrome c oxidase subunit I (Fragment).
 GN COI.
 OS Varanus jobiensis.
 OG Mitochondrion.
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Lepidosauria; Squamata; Scleroglossa; Anguimorpha; Varanidae; Varanus.
 OX NCBI_TaxID=169843;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Ast J.C.;
 RT "Mitochondrial DNA evidence and evolution in Varanoidea (Squamata).";
 RL Cladistics 17:0-0(2001).
 DR EMBL; AF407507; AAL10075.1; -.
 KW Mitochondrion.
 FT NON TER 8
 SQ SEQUENCE 8 AA; 1144 MW; EFD729DB436411A6 CRC64;

Query Match 51.6%; Score 16; DB 8; Length 8;
 Best Local Similarity 66.7%; Pred. No. 8.3e+05;
 Matches 2; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 4 WXF 6
 | |
 Db 4 WLF 6

RESULT 12

Q8WGD7 PRELIMINARY; PRT; 8 AA.
 ID Q8WGD7
 AC Q8WGD7;
 DT 01-MAR-2002 (TrEMBLrel. 20, Created)
 DT 01-MAR-2002 (TrEMBLrel. 20, Last sequence update)
 DT 01-MAR-2002 (TrEMBLrel. 20, Last annotation update)
 DE Cytochrome oxidase subunit 1 (Fragment).
 OS Lomis hirta.
 OG Mitochondrion.
 OC Eukaryota; Metazoa; Arthropoda; Crustacea; Malacostraca;
 OC Eumalacostraca; Eucarida; Decapoda; Pleocyemata; Anomura; Lomoidea;
 OC Lomidae; Lomis.
 OX NCBI_TaxID=177234;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Morrison C.L., Harvey A.W., Lavery S., Tieu K., Huang Y.,
 RA Cunningham C.W.;
 RT "Mitochondrial gene rearrangements support a hypothesis of parallel
 evolution to the crab-like form."
 RL Submitted (OCT-2001) to the EMBL/GenBank/DBJ databases.
 DR EMBL; AF436035; AAL11611.1; -.
 KW Mitochondrion.
 FT NON TER 1
 FT NON TER 8
 SQ SEQUENCE 8 AA; 1038 MW; C5B5B9C733640321 CRC64;

Query Match 51.6%; Score 16; DB 8; Length 8;
 Best Local Similarity 66.7%; Pred. No. 8.3e+05;
 Matches 2; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 4 WXF 6
 | |
 Db 4 WLF 6

RESULT 13

Q94V88 PRELIMINARY; PRT; 8 AA.
 ID Q94V88
 AC Q94V88;

DT 01-DEC-2001 (TrEMBLrel. 19, Created)
 DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
 DE 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
 DE Cytochrome c oxidase subunit I (Fragment).
 GN COI.
 OS Varanus tristis.
 OG Mitochondrion.
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Lepidosauria; Squamata; Scleroglossa; Anguimorpha; Varanidae; Varanus.
 OX NCBI_TaxID=62052;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Ast J.C.;
 RT "Mitochondrial DNA evidence and evolution in Varanoidea (Squamata).";
 RL Cladistics 17:0-0(2001).
 DR EMBL; AF407533; AAL10151.1; -.
 KW Mitochondrion.
 FT NON TER 8
 SQ SEQUENCE 8 AA; 1041 MW; E8B5B9C7336411A6 CRC64;

Query Match 51.6%; Score 16; DB 8; Length 8;
 Best Local Similarity 66.7%; Pred. No. 8.3e+05;
 Matches 2; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 4 WXF 6
 | |
 Db 4 WLF 6

RESULT 14

Q9TD02 PRELIMINARY; PRT; 8 AA.
 ID Q9TD02
 AC Q9TD02;
 DT 01-MAY-2000 (TrEMBLrel. 13, Created)
 DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
 DT 01-MAY-2000 (TrEMBLrel. 13, Last annotation update)
 DE Cytochrome c oxidase subunit I (Fragment).
 OS Terranatos dolichopterus.
 OG Mitochondrion.
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
 OC Acanthomorpha; Acanthopterygii; Percomorpha; Atherinomorpha;
 OC Cyprinodontiformes; Aplocheilidae; Rivulinae; Terranatos.
 OX NCBI_TaxID=61836;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Hrbek T., Larson A.;
 RT "The evolution of diapause in the killifish family Rivulidae
 (Atherinomorpha, Cyprinodontiformes): A molecular phylogenetic and
 biogeographic perspective."
 RL Evolution 53:1200-1216(1999).
 DR EMBL; AF092421; AAF03041.1; -.
 KW Mitochondrion.
 FT NON TER 8
 SQ SEQUENCE 8 AA; 1084 MW; F0C9D3640DD44056 CRC64;

Query Match 51.6%; Score 16; DB 8; Length 8;
 Best Local Similarity 66.7%; Pred. No. 8.3e+05;
 Matches 2; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 4 WXF 6
 | |
 Db 6 WLF 8

RESULT 15

Q9T4Y2 PRELIMINARY; PRT; 8 AA.
 ID Q9T4Y2
 AC Q9T4Y2;
 DT 01-MAY-2000 (TrEMBLrel. 13, Created)
 DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
 DT 01-MAY-2000 (TrEMBLrel. 13, Last annotation update)
 DE COI gene product (Fragment).

OS Asterina pectinifera (Starfish).
 OG Mitochondrion.
 OC Eukaryota; Metazoa; Echinodermata; Eleutherozoa; Asterozoa;
 OC Asteroidea; Valvatacea; Valvatida; Asterinidae; Asterina.
 OX NCBI_taxid=7594;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=89354669; PubMed=2766382;
 RA Jacobs H.T.; Asakawa S.; Araki T.; Miura K.; Smith M.J.; Watanabe K.;
 RT "Conserved tRNA gene cluster in starfish mitochondrial DNA."
 RL Curr. Genet. 15:193-206(1989).
 DR EMBL; X16886; CAA34767.1; -.
 KW Mitochondrion.
 FT NON TER 8
 SQ SEQUENCE 8 AA; 1114 MW; FOC9D36415B736D6 CRC64;

Query Match 51.6%; Score 16; DB 8; Length 8;
 Best Local Similarity 66.7%; Pred. No. 8.3e+05;
 Matches 2; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 WXF 6
 |
 Db 6 WFF 8

Search completed: December 3, 2003, 11:53:24
 Job time : 27.3333 secs

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OM protein - protein search, using sw model

Run on: December 3, 2003, 11:44:55 ; Search time 7.3333 Seconds
(without alignments)
38.476 Million cell updates/sec

Title: US-09-912-414-9
Perfect score: 31
Sequence: 1 WXXWF 6

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 127863 seqs, 47026705 residues

Total number of hits satisfying chosen parameters: 795

Minimum DB seq length: 0
Maximum DB seq length: 15

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : SwissProt_41.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	21	67.7	10	LABA_JATMU	P13270 jatropha mu
2	19	61.3	9	COW CONVE	P83047 conus ventr
3	14	45.2	9	LITR PHYRO	P08946 phyllomedus
4	14	45.2	10	GONI ALLMI	P37041 alligator m
5	14	45.2	10	GON3 ONCKE	P20367 oncorhynch
6	14	45.2	11	RANC RANPI	P08951 rana pipien
7	13	41.9	8	RT34 BOVIN	P82929 bos taurus
8	13	41.9	9	LITO LITAU	P08945 litoria aur
9	13	41.9	10	HTF TABAT	P14596 tabanus atr
10	13	41.9	12	UR2A CATCO	P04558 catostomus
11	13	41.9	12	UR2B CATCO	P04559 cyprinus ca
12	13	41.9	12	UR2B CYPCA	P04561 cyprinus ca
13	13	41.9	12	UR2 GILMI	P01147 gillichthys
14	13	41.9	12	UR2 POLSP	P81022 polyodon sp
15	13	41.9	12	UR2 SCYCA	P35490 scylliorhinu
16	13	41.9	13	BOML PSEGU	P42991 pseudophryn
17	12	38.7	6	LOK1 LOEMI	P41491 locusta mig
18	12	38.7	8	LCK2 LEUMA	P21141 leucophaea
19	12	38.7	8	LCK5 LEUMA	P15987 leucophaea
20	12	38.7	8	LCK7 LEUMA	P19989 leucophaea
21	12	38.7	10	AEGL AGRAE	P83465 agropyre ae
22	12	38.7	10	CA12 LITCI	P82086 litoria cit
23	12	38.7	10	CAER LITXA	P56264 litoria xan
24	12	38.7	10	GONI CHEPR	P80677 chelysoma
25	12	38.7	13	YPNP PHOLU	P41122 photorhabdu
26	12	38.7	15	RM12 YEAST	P36522 saccharomyc
27	11	35.5	4	OCF3 OCTMI	P58649 octopus min
28	11	35.5	5	BP7 BOTIN	P30425 botrops in
29	11	35.5	5	UF01 MOUSE	P38639 mus musculu
30	11	35.5	6	E101 LITRU	P82096 litoria rub
31	11	35.5	7	BRHP CONIM	P58803 conus imper
32	11	35.5	7	TPFY PACDA	P83455 pachymedusa
33	11	35.5	7	TY51 LITRU	P82065 litoria rub

RESULT 1

LABA_JATMU
ID LABA_JATMU STANDARD; PRT; 10 AA.
AC P13270;
DT 01-JAN-1990 (Rel. 13, Created)
DT 01-JAN-1990 (Rel. 13, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Labaditin.
OS Jatropha multifida (Physic nut).
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; eudicotyledons; Core eudicots; Rosidae;
OC eurosids I; Malpighiales; Euphorbiaceae; Jatropha.
OC NCBI_TaxID=3996;
RN [1]
RP SEQUENCE.
RC TISSUE=Latex;
RA Kosasi S., van der Sluis W.G., Boelens R., T'Hart L.A., Labadie R.P.;
RT "Labaditin, a novel cyclic decapeptide from the latex of Jatropha
multifida L. (Euphorbiaceae). Isolation and sequence determination
by means of two-dimensional NMR.";
RL FEBS Lett. 256:91-96(1989).
CC -!- FUNCTION: LABADITIN IS AN ACTIVE PEPTIDE WHICH INHIBITS THE
CLASSICAL PATHWAY OF COMPLEMENT ACTIVATION IN VITRO. ACTIVITY
SEEMS TO BE BASED ON AN INTERACTION WITH C1.
CC -!- PTM: This is a cyclic peptide.
CC -!- DISEASE: LATEX OF THIS PLANT IS USED IN FOLKLORIC MEDICINE FOR
TREATMENT OF INFECTED WOUNDS, SKINS INFECTIONS AND SCABIES.
SQ SEQUENCE 10 AA; 1089 MW; D98AAD6362D1B362 CRC64;

Query Match 67.7%; Score 21; DB 1; Length 10;
Best Local Similarity 50.0%; Pred. No. 1.7e+02;
Matches 2; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Oy 1 WXXW 4
Db 4 WTVW 7

RESULT 2

COW_CONVE
ID COW_CONVE STANDARD; PRT; 9 AA.
AC P83047;
DT 16-OCT-2001 (Rel. 40, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Contryphan-Vn.
OS Conus ventricosus (Mediterranean cone).
OC Eukaryota; Metazoa; Mollusca; Gastropoda; Orthogastropoda;
OC Apogastropoda; Caenogastropoda; Sorbeoconcha; Hypsogastropoda;
OC Neogastropoda; Conoidea; Conidae; Conus.
OC NCBI_TaxID=117992;
RN [1]
RP SEQUENCE, SYNTHESIS, AND MASS SPECTROMETRY.
RC TISSUE=Venom;
RX MEDLINE=21547785; PubMed=11688995;
RA Massilia G.R., Schinina M.E., Ascenzi P., Pollicelli F.;

RT "Contryphan-Vn: a novel peptide from the venom of the Mediterranean
 RT snail *Conus ventricosus*.";
 RL Biochem. Biophys. Res. Commun. 288:908-913(2001).
 CC -!- SUBCELLULAR LOCATION: Secreted.
 CC -!- TISSUE SPECIFICITY: Expressed by the venom duct.
 CC -!- MASS SPECTROMETRY: MW=1088.6; METHOD=MALDI.
 CC -!- SIMILARITY: BELONGS TO THE CONTRYPHAN FAMILY.
 KW Toxin; Amidation; D-amino acid.
 FT DISULFID 3 9
 FT MOD_RES 5 5 D-TRYPTOPHAN.
 FT MOD_RES 9 9 AMIDATION.
 SQ SEQUENCE 9 AA; 1091 MW; 8D38676323676EBA CRC64;

Query Match 61.3%; Score 19; DB 1; Length 9;
 Best Local Similarity 50.0%; Pred. No. 1.3e+05;
 Matches 2; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Oy 1 WXXW 4
 Db 5 WKPW 8

RESULT 3

LITR_PHYRO STANDARD; PRT; 9 AA.
 AC P08946;
 DT 01-NOV-1988 (Rel. 09, Created)
 DT 01-FEB-1994 (Rel. 28, Last sequence update)
 DT 15-SEP-2003 (Rel. 42, Last annotation update)
 DE Rhodiola litorea.
 OS Phylomedusa rohdei (Rohde's leaf frog).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Amphibia; Batrachia; Anura; Neobatrachia; Bufonoidea; Hylidae;
 OC Phyllomedusinae; Phyllomedusa.
 OX NCBI_TaxID=8394;
 RN [1]
 RP SEQUENCE.

RC TISSUE=Skin secretion;
 RX MEDLINE=85127560; PubMed=3838283;
 RA Barra D., Erspamer G.F., Simmaco M., Bossa F., Melchiorri P.,
 RA Erspamer V.;
 RT "Rhodiola-litorin: a new peptide from the skin of *Phyllomedusa rohdei*.";
 RL FEBS Lett. 182:53-56(1985).
 CC -!- SUBCELLULAR LOCATION: Secreted.
 CC -!- TISSUE SPECIFICITY: Skin.
 CC -!- SIMILARITY: BELONGS TO THE BOMBESIN/NEUROMEDIN B/RANATENSIN
 CC FAMILY.

DR PIR; S07241; S07241.
 DR InterPro; IPR000874; Bombesin.
 DR Pfam; PF02044; Bombesin; 1.
 DR PROSITE; PS00257; BOMBESIN; 1.
 KW Amphibian defense peptide; Bombesin family; Amidation;
 FT Pyroglutamate carboxylic acid.
 FT MOD_RES 1 1 PYRROLIDONE CARBOXYLIC ACID.
 FT MOD_RES 9 9 AMIDATION.
 SQ SEQUENCE 9 AA; 1090 MW; 4ECCCE861ADC377 CRC64;

Query Match 45.2%; Score 14; DB 1; Length 9;
 Best Local Similarity 33.3%; Pred. No. 1.3e+05;
 Matches 2; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Oy 1 WXXW 6
 Db 3 WATGHF 8

RESULT 4

GONI_ALIMI STANDARD; PRT; 10 AA.
 AC P37041; P20407;
 DT 01-FEB-1991 (Rel. 17, Created)
 DT 01-FEB-1991 (Rel. 17, Last sequence update)
 DT 28-FEB-2003 (Rel. 41, Last annotation update)

DE Gonadoliberin I (Gonadotropin-releasing hormone I) (GnRH-I) (LH-RH I)
 DE (Luliberin I).
 OS Alligator mississippiensis (American alligator).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Archosauria; Crocodylidae; Alligatorinae; Alligator.
 OX NCBI_TaxID=8496;
 RN [1]
 RP SEQUENCE.

RC TISSUE=Brain;
 RX MEDLINE=91352338; PubMed=1892082;
 RA Lovejoy D.A., Fischer W.H., Parker D.B., McRory J.E., Park M.,
 RA Lance V., Swanson P., Rivier J.E., Sherwood N.M.;
 RT "Primary structure of two forms of gonadotropin-releasing hormone
 RT from brains of the American alligator (*Alligator mississippiensis*).";
 RL Regul. Pept. 33:105-116(1991).
 CC -!- FUNCTION: Stimulates the secretion of gonadotropins.
 CC -!- SUBCELLULAR LOCATION: Secreted.

CC -!- SIMILARITY: Belongs to the GnRH family.
 DR PIR; A60066; RHAQ1.
 DR InterPro; IPR002012; GnRH.
 DR Pfam; PF00446; GnRH; 1.
 DR PROSITE; PS00473; GnRH; 1.
 KW Hormone; Amidation; Hypothalamus; Pyroglutamate carboxylic acid.
 FT MOD_RES 1 1 PYRROLIDONE CARBOXYLIC ACID.
 FT MOD_RES 10 10 AMIDATION.
 SQ SEQUENCE 10 AA; 1172 MW; 284B23D7286B45A3 CRC64;

Query Match 45.2%; Score 14; DB 1; Length 10;
 Best Local Similarity 33.3%; Pred. No. 2.4e+03;
 Matches 1; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Oy 4 WXF 6
 Db 3 WSY 5

RESULT 5

GONJ_ONCKE STANDARD; PRT; 10 AA.
 AC P20367; P81751;
 DT 01-FEB-1991 (Rel. 17, Created)
 DT 01-FEB-1991 (Rel. 17, Last sequence update)
 DT 28-FEB-2003 (Rel. 41, Last annotation update)
 DE Gonadoliberin III (Gonadotropin-releasing hormone III) (GnRH-III) (LH-
 DE RH III) (Luliberin III).
 GN GNRH3.

OS Oncorhynchus keta (Chum salmon), and
 OS Clupea pallasii (Pacific herring).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Actinopterygii; Neopterygii; Teleostei; Euteleostei;
 OC Protacanthopterygii; Salmoniformes; Salmonidae; Oncorhynchus.
 OX NCBI_TaxID=8018, 30724;
 RN [1]
 RP SEQUENCE.

RC SPECIES=O. keta;
 RX MEDLINE=83195140; PubMed=6341999;
 RA Sherwood N., Eiden L., Brownstein M., Spiess J., Rivier J., Vale W.;
 RT "Characterization of a teleost gonadotropin-releasing hormone.";
 RL Proc. Natl. Acad. Sci. U.S.A. 80:2794-2798(1983).
 RN [2]
 RP SEQUENCE, AND FUNCTION.

RC SPECIES=C. pallasii; TISSUE=Brain, and Pituitary;
 RX MEDLINE=20114351; PubMed=10650929;
 RA Carlsfeld J., Powell J.F.F., Park M., Fischer W.H., Craig A.G.,
 RA Chang J.P., Rivier J.E., Sherwood N.M.;
 RT "Primary structure and function of three gonadotropin-releasing
 RT hormones, including a novel form, from an ancient teleost, herring.";
 RL Endocrinology 141:505-512(2000).
 CC -!- FUNCTION: Stimulates the secretion of gonadotropins; it stimulates
 CC the secretion of both luteinizing and follicle-stimulating
 CC hormones.
 CC -!- SUBCELLULAR LOCATION: Secreted.
 CC -!- SIMILARITY: Belongs to the GnRH family.

DR PIR, A21114; A21114.
 DR InterPro; IPR002012; GNRH.
 DR Pfam; PF00446; GNRH; 1.
 DR PROSITE; PS00473; GNRH; 1.
 KW Hormone; Amidation; Hypothalamus; Pyrrolidone carboxylic acid.
 FT MOD RES 1 1 PYRROLIDONE CARBOXYLIC ACID.
 FT MOD RES 10 10 AMIDATION.
 SQ SEQUENCE 10 AA; 1230 MW; 284B3233786B45A3 CRC64;
 Query Match 45.2%; Score 14; DB 1; Length 10;
 Best Local Similarity 33.3%; Pred. No. 2.4e+03;
 Matches 1; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
 QY 4 WXP 6
 DB 3 WSY 5
 RESULT 6
 RANC_RANPI
 ID RANC_RANPI STANDARD; PRT; 11 AA.
 AC P08951;
 DT 01-NOV-1988 (Rel. 09, Created)
 DT 01-NOV-1988 (Rel. 09, Last sequence update)
 DT 15-SEP-2003 (Rel. 42, Last annotation update)
 DE Ranatensis-C.
 OS Rana pipiens (Northern leopard frog).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Amphibia; Batrachia; Anura; Neobatrachia; Ranioidea; Ranidae; Rana.
 OX NCBI_TaxID=8404;
 RN [1]
 RP SEQUENCE.
 RC TISSUE=Skin secretion;
 RX MEDLINE=84131098; PubMed=6141890;
 RA Nakajima T.;
 RL Unpublished results, cited by:
 RL Erspamer V., Erspamer G.F., Mazzanti G., Endean R.;
 RL Comp. Biochem. Physiol. 77C:99-108(1984).
 CC -!- SUBCELLULAR LOCATION: Secreted.
 CC -!- TISSUE SPECIFICITY: Skin.
 CC -!- SIMILARITY: BELONGS TO THE BOMBESIN/NEUROMEDIN B/RANATENSIN FAMILY.
 DR InterPro; IPR000874; Bombesin.
 DR Pfam; PF02044; Bombesin; 1.
 DR PROSITE; PS00257; BOMBESIN; 1.
 KW Amphibian defense peptide; Bombesin family; Amidation.
 FT MOD_RES 11 11
 FT SEQUENCE 11 AA; 1304 MW; D6C9885A61ADC366 CRC64;
 Query Match 45.2%; Score 14; DB 1; Length 11;
 Best Local Similarity 33.3%; Pred. No. 2.6e+03;
 Matches 2; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
 QY 1 WXXWXP 6
 DB 5 WATCHF 10
 RESULT 7
 RT34_BOVIN
 ID RT34_BOVIN STANDARD; PRT; 8 AA.
 AC P82929;
 DT 28-FEB-2003 (Rel. 41, Created)
 DT 28-FEB-2003 (Rel. 41, Last sequence update)
 DT 28-FEB-2003 (Rel. 41, Last annotation update)
 DE Mitochondrial 28S ribosomal protein S34 (S34mt) (MRP-S34) (Fragment).
 GN MRPS34.
 OS Bos taurus (Bovine).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovioidea;
 OC Bovidae; Bovinae; Bos.
 OX NCBI_TaxID=9913;
 RN [1]

RP SEQUENCE.
 RC TISSUE=Liver;
 RX MEDLINE=21276436; PubMed=11279123;
 RA Koc E.C., Burkhardt W., Blackburn K., Moseley A., Spremulli L.L.;
 RT "The small subunit of the mammalian mitochondrial ribosome:
 RT identification of the full complement of ribosomal proteins present."
 J. Biol. Chem. 276:19363-19374(2001).
 CC -!- SUBUNIT: Component of the mitochondrial ribosome small subunit
 CC (28S) which comprises a 12S rRNA and about 30 distinct proteins.
 CC -!- SUBCELLULAR LOCATION: Mitochondrial.
 KW Ribosomal protein; Mitochondrion.
 FT NON_TER 1 1
 FT NON_TER 8 8
 SQ SEQUENCE 8 AA; 935 MW; 9639D1A72058637D CRC64;
 Query Match 41.9%; Score 13; DB 1; Length 8;
 Best Local Similarity 33.3%; Pred. No. 1.3e+05;
 Matches 2; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
 QY 1 WXXWXP 6
 DB 2 WGILTF 7
 RESULT 8
 LITO_LITAU
 ID LITO_LITAU STANDARD; PRT; 9 AA.
 AC P08945;
 DT 01-NOV-1988 (Rel. 09, Created)
 DT 01-FEB-1994 (Rel. 28, Last sequence update)
 DT 15-SEP-2003 (Rel. 42, Last annotation update)
 DE Litorin.
 OS Litoria aurea (Green and golden bell frog).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Amphibia; Batrachia; Anura; Neobatrachia; Bufonoidea; Hylidae;
 OC Pelodyadinae; Litoria.
 OX NCBI_TaxID=8371;
 RN [1]
 RP SEQUENCE.
 RC TISSUE=Skin secretion;
 RX MEDLINE=75187011; PubMed=1140241;
 RA Anastasi A., Erspamer V., Endean R.;
 RT "Aminoacid composition and sequence of litorin, a bombesin-like
 RT nonapeptide from the skin of the Australian leptodactylid frog
 RT Litoria aurea."
 RL Litoria aurea.
 RL Experientia 31:510-511(1975).
 RN [2]
 RP SEQUENCE (METHYLATED VARIANT).
 RC TISSUE=Skin secretion;
 RX MEDLINE=78003546; PubMed=908397;
 RA Anastasi A., Montecucci P.C., Angelucci F., Erspamer V., Endean R.;
 RT "Glu(OMe)3-litorin, the second bombesin-like peptide occurring in
 RT methanol extracts of the skin of the Australian frog Litoria aurea."
 RL Experientia 33:1289-1289(1977).
 CC -!- SUBCELLULAR LOCATION: Secreted.
 CC -!- TISSUE SPECIFICITY: Skin.
 CC -!- SIMILARITY: BELONGS TO THE BOMBESIN/NEUROMEDIN B/RANATENSIN FAMILY.
 DR PIR, S07204; S07204.
 DR InterPro; IPR000874; Bombesin.
 DR Pfam; PF02044; Bombesin; 1.
 DR PROSITE; PS00257; BOMBESIN; 1.
 KW Amphibian defense peptide; Bombesin family; Amidation; Methylation;
 KW Pyrrolidone carboxylic acid.
 FT MOD_RES 1 1 PYRROLIDONE CARBOXYLIC ACID.
 FT MOD_RES 2 2 METHYLATION (PARTIAL).
 FT MOD_RES 9 9 AMIDATION.
 SQ SEQUENCE 9 AA; 1103 MW; D7CCC1E862CDC366 CRC64;
 Query Match 41.9%; Score 13; DB 1; Length 9;
 Best Local Similarity 33.3%; Pred. No. 1.3e+05;
 Matches 2; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 WXXWF 6
|
3 WAUGHF 8
Db

RESULT 9
HTF_TABAT STANDARD; PRT; 10 AA.
AC P14596;
DT 01-JAN-1990 (Rel. 13, Created)
DT 01-FEB-1994 (Rel. 28, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Hypertrehalosaemic factor (HOTH) (Dipteran corpora cardiaca factor II)
DE (DCC II).
OS Tabanus atratus (Horse fly).
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC Neoptera; Endopterygota; Diptera; Brachycera; Tabanomorpha; Tabanidae;
OC Tabanus.
OX NCBI_TaxID=7207;
RN [1]
RP SEQUENCE.
RC TISSUE=Corpora cardiaca;
RX MEDLINE=90046758; PubMed=2813385;
RA Jaffe H., Raina A.K., Riley C.T., Fraser B.A., Nachman R.J.,
RA Vogel V.W., Zhang Y.-S., Hayes D.K.;
RT "Primary structure of two neuropeptide hormones with adipokinetic and
RT hypotrehalosemic activity isolated from the corpora cardiaca of horse
RT flies (Diptera).";
RL Proc. Natl. Acad. Sci. U.S.A. 86:8161-8164(1989).
CC -!- FUNCTION: HYPERTREHALOSAEMIC FACTORS ARE NEUROPEPTIDES THAT
CC ELEVATE THE LEVEL OF TREHALOSE IN THE HEMOLYMPH OF INSECTS).
CC THE MAJOR CARBOHYDRATE IN THE AKH / HRTH / RPCH FAMILY.
CC -!- SIMILARITY: BELONGS TO THE AKH / HRTH / RPCH FAMILY.
DR PIR; B33995; E33995.
DR InterPro; IPR02047; AKH.
DR PROSITE; PS00256; AKH; 1.
KW Neuropeptide; Amidation; Pyrrolidone carboxylic acid.
FT MOD_RES 1 1 PYRROLIDONE CARBOXYLIC ACID.
FT MOD_RES 10 10 AMIDATION.
SQ SEQUENCE 10 AA; 1169 MW; 916036786771A9D1 CRC64;
Query Match 41.9%; Score 13; DB 1; Length 10;
Best Local Similarity 33.3%; Pred. No. 3.5e+03;
Matches 1; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 4 WXF 6
|
8 WGY 10
Db

RESULT 10
UR2A_CATCO STANDARD; PRT; 12 AA.
AC P04558;
DT 13-AUG-1987 (Rel. 05, Created)
DT 13-AUG-1987 (Rel. 05, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Urotensin IIA (U-IIA) (Uria).
OS Catostomus commersoni (White sucker).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes;
OC Catostomidae; Catostomus.
OX NCBI_TaxID=7971;
RN [1]
RP SEQUENCE.
RX MEDLINE=84041959; PubMed=6138758;
RA McMaster D., Lederis K.;
RT "Isolation and amino acid sequence of two urotensin II peptides from
RT Catostomus commersoni urophyses.";
RL Peptides 4:367-373(1983).
CC -!- FUNCTION: UROSENSIN IS FOUND IN THE TELEOST CAUDAL NEUROSECRETORY
CC SYSTEM. IT HAS A SUGGESTED ROLE IN OSMOREGULATION AND AS A
CC CORTICOTROPIN-RELEASING FACTOR.

CC -!- SIMILARITY: BELONGS TO THE UROSENSIN 2 FAMILY.
DR PIR; JS0423; JS0423.
DR InterPro; IPR001483; Urotensin_II.
DR Pfam; PF02083; Urotensin_II; 1.
DR PROSITE; PS00984; UROSENSIN_II; 1.
KW Hormone.
FT DISULFID 6 11
SQ SEQUENCE 12 AA; 1336 MW; 969C76DBB879CEBA CRC64;
Query Match 41.9%; Score 13; DB 1; Length 12;
Best Local Similarity 33.3%; Pred. No. 4e+03;
Matches 1; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 4 WXF 6
|
8 WKY 10
Db

RESULT 11
UR2B_CATCO STANDARD; PRT; 12 AA.
AC P04559;
DT 13-AUG-1987 (Rel. 05, Created)
DT 13-AUG-1987 (Rel. 05, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Urotensin IIB (U-IIB) (UtiB).
OS Catostomus commersoni (White sucker).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes;
OC Catostomidae; Catostomus.
OX NCBI_TaxID=7971;
RN [1]
RP SEQUENCE.
RX MEDLINE=84041959; PubMed=6138758;
RA McMaster D., Lederis K.;
RT "Isolation and amino acid sequence of two urotensin II peptides from
RT Catostomus commersoni urophyses.";
RL Peptides 4:367-373(1983).
CC -!- FUNCTION: UROSENSIN IS FOUND IN THE TELEOST CAUDAL NEUROSECRETORY
CC SYSTEM. IT HAS A SUGGESTED ROLE IN OSMOREGULATION AND AS A
CC CORTICOTROPIN-RELEASING FACTOR.

CC -!- SIMILARITY: BELONGS TO THE UROSENSIN 2 FAMILY.
DR PIR; JS0424; JS0424.
DR InterPro; IPR001483; Urotensin_II.
DR Pfam; PF02083; Urotensin_II; 1.
DR PROSITE; PS00984; UROSENSIN_II; 1.
KW Hormone.
FT DISULFID 6 11
SQ SEQUENCE 12 AA; 1437 MW; 73961BDBB879CEBB CRC64;
Query Match 41.9%; Score 13; DB 1; Length 12;
Best Local Similarity 33.3%; Pred. No. 4e+03;
Matches 1; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 4 WXF 6
|
8 WKY 10
Db

RESULT 12
UR2B_CYPCA STANDARD; PRT; 12 AA.
AC P04561;
DT 13-AUG-1987 (Rel. 05, Created)
DT 13-AUG-1987 (Rel. 05, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Urotensin II-beta.
OS Cyprinus carpio (Common carp).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes;
OC Cyprinidae; Cyprinus.
OX NCBI_TaxID=7962;
RN [1]

```

RP SEQUENCE.
RA Muneata E., Ohtaki T., Ichikawa T., McMaster D., Lederis K.;
RL (In) Rich D.H., Gross E. (eds.);
RL Proceedings of the 7th american peptide symposium, pp.69-72,
RL Pierce Chemical Co., Rockford IL. (1981).
CC -!- FUNCTION: UROTENSIN IS FOUND IN THE TELEOST CAUDAL NEUROSECRETORY
CC SYSTEM. IT HAS A SUGGESTED ROLE IN OSMOREGULATION AND AS A
CC CORTICOTROPIN-RELEASING FACTOR.
CC -!- SIMILARITY: BELONGS TO THE UROTENSIN 2 FAMILY.
DR InterPro: IPR001483; Urotensin_II.
DR Pfam: PF02083; Urotensin_II; 1.
DR PROSITE: PS00984; UROTENSIN_II; 1.
KW Hormone.
FT VARIANT 6 11 G -> S.
FT DISULFID 2 2
SQ SEQUENCE 12 AA; 1407 MW; 73960A9FB879CEBB CRC64;

Query Match 41.9%; Score 13; DB 1; Length 12;
Best Local Similarity 33.3%; Pred. No. 4e+03;
Matches 1; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 4 WXF 6
Db 8 WKY 10

RESULT 13
UR2_GILMI STANDARD; PRT; 12 AA.
AC P01147;
DT 21-JUL-1986 (Rel. 01, Created)
DT 21-JUL-1986 (Rel. 01, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Urotensin II (U-II) (UII).
OS Gillichthys mirabilis (Long-jawed mudsucker).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
OC Acanthomorpha; Acanthopterygii; Percomorpha; Perciformes; Gobioidae;
OC Gobiidae; Gillichthys.
OX NCBI_TaxID=8222;
RN [1]
RP SEQUENCE.
RX MEDLINE=81054904; PubMed=6107911;
RA Pearson D., Shively J.E., Clark B.R., Geschwind I.I., Barkley M.,
RA Nishioka R., Bern H.A.;
RT "Urotensin II: a somatostatin-like peptide in the caudal
RT neurosecretory system of fishes."
RL Proc. Natl. Acad. Sci. U.S.A. 77:5021-5024(1980).
CC -!- FUNCTION: UROTENSIN IS FOUND IN THE TELEOST CAUDAL NEUROSECRETORY
CC SYSTEM. IT HAS A SUGGESTED ROLE IN OSMOREGULATION AND AS A
CC CORTICOTROPIN-RELEASING FACTOR.
CC -!- SIMILARITY: BELONGS TO THE UROTENSIN 2 FAMILY.
DR PIR; A01409; UOGR2.
DR PIR; S42765; S42765.
DR InterPro: IPR001483; Urotensin_II.
DR Pfam: PF02083; Urotensin_II; 1.
DR PROSITE: PS00984; UROTENSIN_II; 1.
KW Hormone.
FT DISULFID 6 11
SQ SEQUENCE 12 AA; 1364 MW; 968BF8982679CEBA CRC64;

Query Match 41.9%; Score 13; DB 1; Length 12;
Best Local Similarity 33.3%; Pred. No. 4e+03;
Matches 1; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 4 WXF 6
Db 8 WKY 10

RESULT 14
UR2_POLSP STANDARD; PRT; 12 AA.
ID UR2_POLSP

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AC P81022;
DT 01-NOV-1997 (Rel. 35, Created)
DT 01-NOV-1997 (Rel. 35, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Urotensin II (U-II) (UII).
OS Polyodon spathula (North American paddlefish).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Chondrostei; Acipenseriformes; Polyodontidae;
OC Polyodon.
OX NCBI_TaxID=7913;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Spinal cord;
RX MEDLINE=96051494; PubMed=8536944;
RA Waugh D., Youson J., Mims S.D., Sower S., Conlon J.M.;
RT "Urotensin II from the river lamprey (Lampetra fluviatilis), the sea
RT lamprey (Petromyzon marinus), and the paddlefish (Polyodon
RT spathula).";
RT Gen. Comp. Endocrinol. 99:323-332(1995).
RL Gen. Comp. Endocrinol. 99:323-332(1995).
CC -!- FUNCTION: HAS A SUGGESTED ROLE IN OSMOREGULATION AND AS A
CC CORTICOTROPIN-RELEASING FACTOR. PROBABLY INVOLVED IN SMOOTH
CC MUSCLE STIMULATION.
CC -!- SIMILARITY: BELONGS TO THE UROTENSIN 2 FAMILY.
DR InterPro: IPR001483; Urotensin_II.
DR Pfam: PF02083; Urotensin_II; 1.
DR PROSITE: PS00984; UROTENSIN_II; 1.
KW Hormone.
FT DISULFID 6 11 BY SIMILARITY.
FT DISULFID 6 11 BY SIMILARITY.
SQ SEQUENCE 12 AA; 1410 MW; 7551E9DBB879CEBB CRC64;

Query Match 41.9%; Score 13; DB 1; Length 12;
Best Local Similarity 33.3%; Pred. No. 4e+03;
Matches 1; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 4 WXF 6
Db 8 WKY 10

RESULT 15
UR2_SCYCA STANDARD; PRT; 12 AA.
ID UR2_SCYCA
AC P35490;
DT 01-JUN-1994 (Rel. 29, Created)
DT 01-JUN-1994 (Rel. 29, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Urotensin II (U-II) (UII).
OS Scyliorhinus canicula (Spotted dogfish) (Spotted catshark).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Chondrichthyes;
OC Elasmobranchii; Galeomorphi; Galeoidea; Carcharhiniformes;
OC Scyliorhinidae; Scyliorhinus.
OX NCBI_TaxID=7830;
RN [1]
RP SEQUENCE.
RC TISSUE=Spinal cord;
RX MEDLINE=92319231; PubMed=1620290;
RA Conlon J.M., O'Harte F., Smith D.D., Baiment R.J., Hazon N.;
RT "Purification and characterization of urotensin II and parvalbumin
RT from an elasmobranch fish, Scyliorhinus canicula (common dogfish).";
RL Neuroendocrinology 55:230-235(1992).
CC -!- FUNCTION: HAS A SUGGESTED ROLE IN OSMOREGULATION AND AS A
CC CORTICOTROPIN-RELEASING FACTOR. PROBABLY INVOLVED IN SMOOTH
CC MUSCLE STIMULATION.
CC -!- SIMILARITY: BELONGS TO THE UROTENSIN 2 FAMILY.
DR InterPro: IPR001483; Urotensin_II.
DR Pfam: PF02083; Urotensin_II; 1.
DR PROSITE: PS00984; UROTENSIN_II; 1.
KW Hormone.
FT DISULFID 6 11
SQ SEQUENCE 12 AA; 1526 MW; 804729F9D579CEBA CRC64;

Query Match 41.9%; Score 13; DB 1; Length 12;
Best Local Similarity 33.3%; Pred. No. 4e+03;

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Matches 1; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Oy 4 WXF 6

Db 8 WKY 10

Search completed: December 3, 2003, 11:51:51
Job time : 7.33333 secs

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OM protein - protein search, using sw model

Run on: December 3, 2003, 11:48:35 ; Search time 11 Seconds
(without alignments)

52.456 Million cell updates/sec

Title: US-09-912-414-9

Perfect score: 31

Sequence: 1 WXXWF 6

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 283308 seqs, 96168682 residues

Total number of hits satisfying chosen parameters: 2520

Minimum DB seq length: 0

Maximum DB seq length: 15

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

PIR_76.*

1: pir1.*

2: pir2.*

3: pir3.*

4: pir4.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	DB	ID	Description
1	21	67.7	9	2	A43848	cell surface adhes
2	20	64.5	10	2	F49033	T-cell receptor ga
3	20	64.5	12	2	PH1324	Ig heavy chain DJ
4	20	64.5	12	2	PH1308	Ig heavy chain DJ
5	20	64.5	13	2	S61798	T-cell-specific tr
6	20	64.5	14	2	PH1322	Ig heavy chain DJ
7	17	54.8	13	2	S23372	T-cell receptor al
8	17	54.8	13	2	B25448	Ig kappa-1 chain,
9	17	54.8	13	2	B26406	Ig kappa chain J r
10	17	54.8	13	2	A47630	Ig kappa chain J r
11	16	51.6	8	2	T13818	cytochrome oxidase
12	16	51.6	10	2	T17054	cytochrome-c oxida
13	16	51.6	10	2	T13976	cytochrome-c oxida
14	16	51.6	10	2	T17057	cytochrome-c oxida
15	16	51.6	10	2	T12303	cytochrome-c oxida
16	16	51.6	10	2	T14019	cytochrome-c oxida
17	16	51.6	10	2	T17060	cytochrome-c oxida
18	16	51.6	10	2	T17063	cytochrome-c oxida
19	16	51.6	10	2	T12325	cytochrome-c oxida
20	16	51.6	10	2	T14043	cytochrome-c oxida
21	16	51.6	10	2	T14054	cytochrome-c oxida
22	16	51.6	10	2	T17066	cytochrome-c oxida
23	16	51.6	10	2	T17069	cytochrome-c oxida
24	16	51.6	10	2	T12308	cytochrome-c oxida
25	16	51.6	10	2	T17072	cytochrome-c oxida
26	16	51.6	10	2	T12312	cytochrome-c oxida
27	16	51.6	10	2	T12329	cytochrome-c oxida
28	16	51.6	10	2	T12316	cytochrome-c oxida
29	16	51.6	10	2	T12321	cytochrome-c oxida

30 16 51.6 10 2 T14215 cytochrome-c oxida
31 16 51.6 10 2 T14223 cytochrome-c oxida
32 16 51.6 10 2 T14219 cytochrome-c oxida
33 16 51.6 12 2 A29169 phospholipase A2 (proteochondroitin c
34 16 51.6 14 2 PT0077 phenotypic variati
35 16 51.6 15 2 PA0099 glucan 1,3-beta-gl
36 15 48.4 9 2 S56004 leukocyte elastase
37 15 48.4 15 2 S24159 litorin - Rohde's
38 14 45.2 9 2 S07241 gonadoliberin - pi
39 14 45.2 10 1 RHPG3 gonadoliberin - sh
40 14 45.2 10 1 RHSHG gonadoliberin I - sh
41 14 45.2 10 1 RHAQ1 gonadoliberin - ch
42 14 45.2 10 2 A21114 spermadhesin AQN-3
43 14 45.2 11 2 S68649 Ig heavy chain DJ
44 14 45.2 15 2 PH1365 litorin 2-Glu - Au
45 13 41.9 9 2 S07205

ALIGNMENTS

RESULT 1

A43848

cell surface adhesin for heparan sulfate, 66K - Staphylococcus aureus (fragment)
C;Species: Staphylococcus aureus
C;Date: 10-Mar-1993 #sequence_revision 18-Nov-1994 #text_change 24-Feb-1995
C;Accession: A43848
R;Liang, O.D.; Ascencio, F.; Fransson, L.A.; Wadstrom, T.

Infect. Immun. 60, 899-906, 1992

A;Title: Binding of heparan sulfate to Staphylococcus aureus.

A;Reference number: A43848; MUID:92176005; PMID:1541563

A;Accession: A43848

A;Status: preliminary

A;Molecule type: protein

A;Residues: 1-9 <LIR>

A;Note: sequence extracted from NCBI backbone (NCBI:85442)

Query Match 67.7%; Score 21; DB 2; Length 9;

Best Local Similarity 50.0%; Pred. No. 2.8e+05;

Matches 2; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 WXXW 4

Db 2 WTGW 5

RESULT 2

F49033

T-cell receptor gamma chain V-D-J region - human (fragment)

C;Species: Homo sapiens (man)

C;Date: 19-Dec-1993 #sequence_revision 17-Mar-2000 #text_change 17-Mar-2000

C;Accession: F49033

R;Morita, C.T.; Verma, S.; Aparicio, P.; Martinez, C.; Spits, H.; Brenner, M.B.

Eur. J. Immunol. 21, 2999-3007, 1991

A;Title: Functionally distinct subsets of human gamma/delta T cells.

A;Reference number: A49033; MUID:92083926; PMID:1684157

A;Accession: F49033

A;Status: preliminary

A;Molecule type: DNA

A;Residues: 1-10 <MOR>

A;Cross-references: GB:S72605; NID:G240700; PIDN:AAB20632.1; PID:G240701

A;Note: sequence extracted from NCBI backbone (NCBIN:72605, NCBI:72606)

C;Keywords: T-cell receptor

Query Match 64.5%; Score 20; DB 2; Length 10;

Best Local Similarity 50.0%; Pred. No. 5.7e+02;

Matches 2; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 WXXW 4

Db 4 WERW 7

RESULT 3

PH1324
Ig heavy chain DJ region (clone C510-100) - human (fragment)
C:Species: Homo sapiens (man)
C:Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 07-May-1999
C:Accession: PH1324
R:Wasserman, R.; Galili, N.; Ito, Y.; Reichard, B.A.; Shane, S.; Rovera, G.
J. Exp. Med. 176, 1577-1581, 1992
A:Title: Predominance of fetal type DJH joining in young children with B precursor lymphoma
A:Reference number: PH1302; MUID:93094761; PMID:1460419
A:Accession: PH1324
A:Molecule type: DNA
A:Residues: 1-12 <WAS>
C:Keywords: heterotetramer; immunoglobulin

Query Match 64.5%; Score 20; DB 2; Length 12;
Best Local Similarity 50.0%; Pred. No. 6.6e+02;
Matches 2; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 WXXW 4
| |
Db 5 WYYW 8

RESULT 4

PH1308
Ig heavy chain DJ region (clone C731-94) - human (fragment)
C:Species: Homo sapiens (man)
C:Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 07-May-1999
C:Accession: PH1308
R:Wasserman, R.; Galili, N.; Ito, Y.; Reichard, B.A.; Shane, S.; Rovera, G.
J. Exp. Med. 176, 1577-1581, 1992
A:Title: Predominance of fetal type DJH joining in young children with B precursor lymphoma
A:Reference number: PH1302; MUID:93094761; PMID:1460419
A:Accession: PH1308
A:Molecule type: DNA
A:Residues: 1-12 <WAS>
C:Keywords: heterotetramer; immunoglobulin

Query Match 64.5%; Score 20; DB 2; Length 12;
Best Local Similarity 50.0%; Pred. No. 6.6e+02;
Matches 2; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 WXXW 4
| |
Db 7 WQGW 10

RESULT 5

S61798
T-cell-specific transcription factor 1 splice form G - human (fragment)
N:Alternate names: transcription factor TCF-1G
C:Species: Homo sapiens (man)
C:Date: 19-Mar-1997 #sequence_revision 18-Jul-1997 #text_change 24-Jul-1998
C:Accession: S61798; S61880
R:Mayer, K.; Wolff, E.; Clevers, H.; Ballhausen, W.G.
Biochim. Biophys. Acta 1263, 169-172, 1995
A:Title: The human high mobility group (HMG)-box transcription factor TCF-1: novel isoform
A:Reference number: S61796; MUID:95367594; PMID:7640309
A:Accession: S61798
A:Molecule type: mRNA
A:Residues: 1-13 <MAY>
A:Cross-references: EMBL:247364
A:Note: DNA was also sequenced
C:Keywords: alternative splicing; DNA binding; transcription factor

Query Match 64.5%; Score 20; DB 2; Length 13;
Best Local Similarity 50.0%; Pred. No. 7e+02;
Matches 2; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 WXXW 4
| |
Db 6 WQGW 9

RESULT 6

PH1322
Ig heavy chain DJ region (clone C344-99) - human (fragment)
C:Species: Homo sapiens (man)
C:Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 07-May-1999
C:Accession: PH1322
R:Wasserman, R.; Galili, N.; Ito, Y.; Reichard, B.A.; Shane, S.; Rovera, G.
J. Exp. Med. 176, 1577-1581, 1992
A:Title: Predominance of fetal type DJH joining in young children with B precursor lymphoma
A:Reference number: PH1302; MUID:93094761; PMID:1460419
A:Accession: PH1322
A:Molecule type: DNA
A:Residues: 1-14 <WAS>
C:Keywords: heterotetramer; immunoglobulin

Query Match 64.5%; Score 20; DB 2; Length 14;
Best Local Similarity 50.0%; Pred. No. 7.4e+02;
Matches 2; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 WXXW 4
| |
Db 6 WQYW 9

RESULT 7

S23372
T-cell receptor alpha chain J region - human (fragment)
C:Species: Homo sapiens (man)
C:Date: 22-Nov-1993 #sequence_revision 26-May-1995 #text_change 17-Mar-1999
C:Accession: S23372
R:Pluschke, G.; Ricken, G.; Taube, H.; Kroninger, S.; Melchers, I.; Peter, H.H.; Eichmüller, J. Immunol. 21, 2749-2754, 1991
A:Title: Biased T cell receptor V(alpha) region repertoire in the synovial fluid of rheumatoid arthritis
A:Reference number: S23364; MUID:92037820; PMID:1657615
A:Accession: S23372
A:Status: preliminary; translation not shown
A:Molecule type: mRNA
A:Residues: 1-13 <PLU>
A:Cross-references: EMBL:X58167
C:Keywords: T-cell receptor

Query Match 54.8%; Score 17; DB 2; Length 13;
Best Local Similarity 66.7%; Pred. No. 2.2e+03;
Matches 2; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 4 WXP 6
| |
Db 11 WTP 13

RESULT 8

B25448
Ig kappa-1 chain, 69 allotype, J-K1.1 segment - rabbit (fragment)
C:Species: Oryctolagus cuniculus (domestic rabbit)
C:Date: 16-Aug-1988 #sequence_revision 16-Aug-1988 #text_change 05-Nov-1999
C:Accession: B25448
R:Akimenko, M.A.; Mariame, B.; Rougeon, F.
Proc. Natl. Acad. Sci. U.S.A. 83, 5180-5183, 1986
A:Title: Evolution of the immunoglobulin kappa light chain locus in the rabbit: evidence for a gene conversion event
A:Reference number: A94110; MUID:86259753; PMID:3088570
A:Accession: B25448
A:Molecule type: DNA
A:Residues: 1-13 <AKI>
A:Cross-references: GB:M14067; GB:M14062; GB:M14063; GB:M14064; GB:M14065; GB:M14066; I
C:Keywords: heterotetramer; immunoglobulin

Query Match 54.8%; Score 17; DB 2; Length 13;
Best Local Similarity 66.7%; Pred. No. 2.2e+03;
Matches 2; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 4 WXP 6

Db 1 WAF 3

RESULT 9
B26406
Ig kappa chain J region - mouse
C:Species: Mus musculus (house mouse)
C:Date: 30-Jun-1989 #sequence_revision 30-Jun-1989 #text_change 16-Aug-1996
C:Accession: B26406
R:Sanz, I.; Capra, J.D.
Proc. Natl. Acad. Sci. U.S.A. 84, 1085-1089, 1987
A:Title: V-K and J-K gene segments of A/J Ars-A antibodies: somatic recombination genera
A:Reference number: A26406; MUID:87147197; PMID:3103124
A:Accession: B26406
A:Molecule type: DNA
A:Residues: 1-13 <SAN>
A:Cross-references: GB:M15519
C:Keywords: heterotetramer; immunoglobulin

Query Match 54.8%; Score 17; DB 2; Length 13;
Best Local Similarity 66.7%; Pred. No. 2.2e+03;
Matches 2; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 WXF 6
| |
Db 1 WTF 3

RESULT 10
A47630
Ig kappa chain-J region J1 - southeastern Australian rat
C:Species: Rattus sordidus villosissimus (southeastern Australian rat)
C:Date: 03-Feb-1994 #sequence_revision 03-Feb-1994 #text_change 05-Nov-1999
C:Accession: A47630
R:Gutman, G.A.; Besta, R.M.; Frank, M.B.; Baverstock, P.R.
Immunogenetics 26, 14-20, 1987
A:Title: Duplication of J-kappa genes within genus Rattus.
A:Reference number: A47630; MUID:87278355; PMID:3111993
A:Accession: A47630
A:Status: preliminary; not compared with conceptual translation
A:Molecule type: DNA
A:Residues: 1-13 <GUT>
A:Cross-references: GB:M17319; NID:g204788; PIDN:AAA41397.1; PID:g204789
C:Keywords: heterotetramer; immunoglobulin

Query Match 54.8%; Score 17; DB 2; Length 13;
Best Local Similarity 66.7%; Pred. No. 2.2e+03;
Matches 2; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 WXF 6
| |
Db 1 WTF 3

RESULT 11
T13818
cytochrome oxidase subunit I - Atlantic hagfish mitochondrion (fragment)
C:Species: mitochondrion Myxine glutinosa (Atlantic hagfish)
C:Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 21-Jul-2000
C:Accession: T13818
R:Delarbre, C.; Barriel, V.; Tillier, S.; Janvier, P.; Gachelin, G.
Mol. Biol. Evol. 14, 807-813, 1997
A:Title: The main features of the craniate mitochondrial DNA between the NDI and the COI
A:Reference number: Z17775; MUID:97398704; PMID:9254918
A:Accession: T13818
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: DNA
A:Residues: 1-8
A:Cross-references: EMBL:Y09527; NID:g2340019; PIDN:CAA70718.1; PID:g2340022
C:Genetics:
A:Genome: mitochondrion
A:Note: COI

C:Keywords: mitochondrion

Query Match 51.6%; Score 16; DB 2; Length 8;
Best Local Similarity 66.7%; Pred. No. 2.8e+05;
Matches 2; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 WXF 6
| |
Db 6 WFF 8

RESULT 12
T17054
cytochrome-c oxidase (EC 1.9.3.1) chain I - Basiliscus plumifrons mitochondrion (fragm
C:Species: mitochondrion Basiliscus plumifrons
C:Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 22-Oct-1999
C:Accession: T17054
R:Macey, J.R.; Larson, A.; Ananjeva, N.B.; Papenfuss, T.J.
J. Mol. Evol. 44, 660-674, 1997
A:Title: Evolutionary shifts in three major structural features of the mitochondrial g
A:Reference number: Z18674; MUID:97315309; PMID:9169559
A:Accession: T17054
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: DNA
A:Residues: 1-10 <MAC>
A:Cross-references: EMBL:U82680; NID:g3603104; PID:g3603107; PIDN:AAAC62269.1
C:Genetics:
A:Genome: mitochondrion
A:Note: COI
C:Keywords: mitochondrion; oxidoreductase

Query Match 51.6%; Score 16; DB 2; Length 10;
Best Local Similarity 66.7%; Pred. No. 2.6e+03;
Matches 2; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 WXF 6
| |
Db 6 WLF 8

RESULT 13
T13976
cytochrome-c oxidase (EC 1.9.3.1) chain I - Chnemidophorus tigris mitochondrion (fragme
C:Species: mitochondrion Chnemidophorus tigris
C:Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 11-May-2000
C:Accession: T13976
R:Macey, J.R.; Larson, A.; Ananjeva, N.B.; Fang, Z.; Papenfuss, T.J.
Mol. Biol. Evol. 14, 91-104, 1997
A:Title: Two novel gene orders and the role of light-strand replication in rearrangeme
A:Reference number: Z17789; MUID:97153826; PMID:9000757
A:Accession: T13976
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: DNA
A:Residues: 1-10 <MAC>
A:Cross-references: EMBL:U71332; NID:gl753236; PID:gl753239; PIDN:AAB48274.1
C:Genetics:
A:Genome: mitochondrion
A:Note: COI
C:Keywords: mitochondrion; oxidoreductase

Query Match 51.6%; Score 16; DB 2; Length 10;
Best Local Similarity 66.7%; Pred. No. 2.6e+03;
Matches 2; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 WXF 6
| |
Db 6 WFF 8

RESULT 14
T17057
cytochrome-c oxidase (EC 1.9.3.1) chain I - Crotaphytus collaris mitochondrion (fragme
C:Species: mitochondrion Crotaphytus collaris

C>Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 22-Oct-1999
C:Accession: T17057
R:Macey, J.R.; Larson, A.; Ananjeva, N.B.; Papenfuss, T.J.
J. Mol. Evol. 44, 660-674, 1997
A:Title: Evolutionary shifts in three major structural features of the mitochondrial gene
A:Reference number: Z18674; MUID:97315309; PMID:9169559
A:Accession: T17057
A>Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: DNA
A:Residues: 1-10 <MAC>
A:Cross-references: EMBL:U82681; NID:g3603108; PID:g3603111; PIDN:AAC62272.1
C:Genetics:
A:Genome: mitochondrion
A:Note: COI
C:Keywords: mitochondrion; oxidoreductase

Query Match 51.6%; Score 16; DB 2; Length 10;
Best Local Similarity 66.7%; Pred. No. 2.6e+03;
Matches 2; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 4 WXF 6
| |
Db 6 WFF 8

RESULT 15

T12303
cytochrome-c oxidase (EC 1.9.3.1) chain I - Diposaurus dorsalis mitochondrion (fragment
C:Species: mitochondrion Diposaurus dorsalis
C>Date: 23-Jul-1999 #sequence_revision 23-Jul-1999 #text_change 22-Oct-1999
C:Accession: T12303
R:Schulte, J.A.; Macey, J.R.; Larson, A.; Papenfuss, T.J.
Mol. Phylogenet. Evol. 10, 367-376, 1998
A:Title: Molecular tests of phylogenetic taxonomies: A general procedure and example usi
A:Reference number: Z17488; MUID:99162288; PMID:10051389
A:Accession: T12303
A>Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: DNA
A:Residues: 1-10 <SCH>
A:Cross-references: EMBL:AF049857; NID:g4105726; PID:g4105729; PIDN:AAD02514.1
C:Genetics:
A:Genome: mitochondrion
A:Note: COI
C:Keywords: mitochondrion; oxidoreductase

Query Match 51.6%; Score 16; DB 2; Length 10;
Best Local Similarity 66.7%; Pred. No. 2.6e+03;
Matches 2; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 4 WXF 6
| |
Db 6 WFF 8

Search completed: December 3, 2003, 11:54:08
Job time: 11 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: December 12, 2003, 10:26:30 ; Search time 30.3 Seconds
(without alignments)
31.431 Million cell updates/sec

Title: US-09-912-414-9

Perfect score: 31

Sequence: 1 WXXWXF 6

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1107863 seqs, 158726573 residues

Total number of hits satisfying chosen parameters: 350435

Minimum DB seq length: 0

Maximum DB seq length: 15

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

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- 3: /SIDSL1/gcgdata/geneseq/geneseq-emb1/AA1982.DAT:*
- 4: /SIDSL1/gcgdata/geneseq/geneseq-emb1/AA1983.DAT:*
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- 22: /SIDSL1/gcgdata/geneseq/geneseq-emb1/AA2001.DAT:*
- 23: /SIDSL1/gcgdata/geneseq/geneseq-emb1/AA2002.DAT:*
- 24: /SIDSL1/gcgdata/geneseq/geneseq-emb1/AA2003.DAT:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	28	90.3	15	20	AA1930351
2	28	90.3	15	23	AAE19239
3	27	87.1	9	23	AAE26751
4	27	87.1	15	23	AAE26733
5	26	83.9	6	21	AAE01505
6	26	83.9	6	21	AAE01506
7	26	83.9	6	21	AAE01508
8	26	83.9	6	24	ABR45313
9	26	83.9	6	24	ABR45314

(USSH) US DEPT HEALTH & HUMAN SERVICES.

Ades EW, Carlone GM, Sampson JS, Tharpe JA, Westerink MAJ;
Zeiler JL,

WPI; 1999-540849/45.

New peptides corresponding to Streptococcus pneumoniae Psaa, used for treating or preventing Streptococcus pneumoniae infection in a

10	26	83.9	6	24	ABR45369	Staphylococcus aur
11	26	83.9	6	24	ABR45370	Staphylococcus aur
12	26	83.9	6	24	ABR45425	Staphylococcus aur
13	26	83.9	6	24	ABR45426	Staphylococcus aur
14	26	83.9	6	24	ABR45481	Staphylococcus aur
15	26	83.9	6	24	ABR45482	Staphylococcus aur
16	26	83.9	6	24	ABR45593	Staphylococcus aur
17	26	83.9	6	24	ABR45594	Staphylococcus aur
18	26	83.9	9	23	AAE26775	Fibrin binding pep
19	26	83.9	15	23	AAE26750	Oestrogen receptor
20	26	83.9	15	23	ABE99042	Serine/threonine p
21	26	83.9	15	23	AAE26759	Fibrin binding pep
22	26	83.9	15	23	AAU86245	Oestrogen receptor
23	25	80.6	6	15	AAE57391	Peptide for treati
24	25	80.6	6	21	AAE01492	Peptide which bind
25	25	80.6	6	21	AAE01497	Peptide which bind
26	25	80.6	6	21	AAE01499	Peptide which bind
27	25	80.6	6	24	ABR44865	Staphylococcus aur
28	25	80.6	6	24	ABR44866	Staphylococcus aur
29	25	80.6	6	24	ABR45311	Staphylococcus aur
30	25	80.6	6	24	ABR45312	Staphylococcus aur
31	25	80.6	6	24	ABR45367	Staphylococcus aur
32	25	80.6	6	24	ABR45368	Staphylococcus aur
33	25	80.6	6	24	ABR45423	Staphylococcus aur
34	25	80.6	6	24	ABR45424	Staphylococcus aur
35	25	80.6	6	24	ABR45479	Staphylococcus aur
36	25	80.6	6	24	ABR45480	Staphylococcus aur
37	25	80.6	6	24	ABR45537	Staphylococcus aur
38	25	80.6	6	24	ABR45538	Staphylococcus aur
39	25	80.6	6	24	ABR45591	Staphylococcus aur
40	25	80.6	6	24	ABR45592	Staphylococcus aur
41	25	80.6	7	22	AAE45777	H11 binding site c
42	25	80.6	9	21	AAE01498	Peptide which bind
43	25	80.6	11	21	AAE20714	Polymetric immunol
44	25	80.6	13	18	AAE38112	Dyscrophin WW doma
45	25	80.6	14	22	AAE07760	Human HLA-DP restr

ALIGNMENTS

RESULT 1

AA1930351

ID AA1930351 standard; Peptide; 15 AA.

XX AC AA1930351;

XX AC AA1930351;

DT 09-NOV-1999 (first entry)

XX Epitope derived from pneumococcal surface adhesion A protein.

DE Pneumococcal surface adhesion A protein; Psaa; monoclonal antibody;

KW vaccine; Streptococcus pneumoniae infection.

XX Streptococcus pneumoniae.

XX Streptococcus pneumoniae.

PN WO9945121-A1.

XX 10-SEP-1999.

PF 26-FEB-1999; 99WO-US04326.

XX 02-MAR-1998; 98US-0076565.

XX (USSH) US DEPT HEALTH & HUMAN SERVICES.

Ades EW, Carlone GM, Sampson JS, Tharpe JA, Westerink MAJ;

Zeiler JL,

WPI; 1999-540849/45.

New peptides corresponding to Streptococcus pneumoniae Psaa, used for treating or preventing Streptococcus pneumoniae infection in a

PT subject
 XX Claim 6; Page 43; 58pp; English.
 PS
 XX AAY30351-54 represent immunogenic peptides which are derived from
 CC a pneumococcal surface adhesion A protein (PsaA). The specification
 CC describes monoclonal antibodies which bind epitopes of the PsaA protein
 CC (e.g present sequence). The peptides can be used in vaccines to prevent
 CC Streptococcus pneumoniae infections. The antibodies of the invention
 CC can also be used to detect S. pneumoniae in a sample or individual.
 XX
 SQ Sequence 15 AA;
 Query Match 90.3%; Score 28; DB 20; Length 15;
 Best Local Similarity 50.0%; Pred. No. 1.1e+02;
 Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 Qy 1 WXXWKF 6
 | | | |
 Db 7 WTAWAF 12
 RESULT 2
 AAE19239
 ID AAE19239 standard; peptide; 15 AA.
 XX
 AC AAE19239;
 XX
 DT 21-MAY-2002 (first entry)
 XX
 DE Streptococcus pneumoniae PsaA immunogenic peptide #1.
 XX
 KW Multiple antigenic peptide; MAP; immunogenic; immunity; infection;
 KW pneumococcal surface adhesin protein A; PsaA; antibacterial.
 XX
 OS Streptococcus pneumoniae.
 XX
 PN WO200204497-A2.
 XX
 PD 17-JAN-2002.
 XX
 PF 10-JUL-2001; 2001WO-US21626.
 XX
 PR 10-JUL-2000; 2000US-0613092.
 XX
 PA (USSH) US DEPT HEALTH & HUMAN SERVICES.
 XX
 PI Ades EV, Johnson SE, Jue DL, Sampson JS, Carlone GM;
 DR WPI; 2002-195762/25.
 XX
 PT New multiple antigenic peptide for immunizing against streptococcal
 PT infections, binds to monoclonal antibody obtained in response to
 PT immunizing an animal with pneumococcal surface adhesion protein A or
 PT its fragment -
 XX
 PS Claim 2; Page 56; 86pp; English.
 XX
 CC The invention relates to multiple antigenic peptides (MAP) immunogenic
 CC against Streptococcus pneumoniae. MAP binds to monoclonal antibody
 CC obtained in response to immunising an animal with pneumococcal surface
 CC adhesion protein A (PsaA) or its fragment. MAP is useful for conferring
 CC protective immunity against S. pneumoniae infection in a subject. The
 CC present sequence is Streptococcus pneumoniae PsaA immunogenic peptide.
 XX
 SQ Sequence 15 AA;
 Query Match 90.3%; Score 28; DB 23; Length 15;
 Best Local Similarity 50.0%; Pred. No. 1.1e+02;
 Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 Qy 1 WXXWKF 6
 | | | |

Db 7 WTAWAF 12
 RESULT 3
 AAE26751
 ID AAE26751 standard; peptide; 9 AA.
 XX
 AC AAE26751;
 XX
 DT 13-DEC-2002 (first entry)
 XX
 DE Fibrin binding loop #3.
 XX
 KW Fibrin binding peptide; thrombosis; pulmonary embolism; atherosclerosis;
 KW myocardial infarct; ischaemia; imaging; rheumatoid arthritis; vasotropic;
 KW anaemia; hypoxia; tumour; diabetic retinopathy; autoimmune disorder;
 KW inflammatory disorder; angiogenesis; stroke; cerebroprotective.
 XX
 OS Unidentified.
 XX
 PN WO200255544-A2.
 XX
 PD 18-JUL-2002.
 XX
 PF 21-DEC-2001; 2001WO-US49534.
 XX
 PR 23-DEC-2000; 2000US-0747403.
 XX
 PA (DYAX-) DYAX CORP.
 XX
 PI Wescott CR, Beltzer JP, Sato AK;
 XX
 DR WPI; 2002-666875/71.
 XX
 PT Novel synthetic fibrin-binding moiety, useful for detecting, imaging or
 PT localizing fibrin-containing clots by magnetic resonance imaging,
 PT radioimaging and for treating diseases involving thrombus formation
 PT e.g. stroke -
 XX
 PS Claim 4; Page 55; 89pp; English.
 XX
 CC The invention relates to a synthetic fibrin binding group having affinity
 CC for fibrin. The invention is useful for detecting fibrin in a mammalian
 CC subject which involves (a) detectably labelling the binding group; (b)
 CC administering to the subject the labelled polypeptide, and (c) detecting
 CC the labelled polypeptide in the subject. The invention is useful for
 CC treating a disease involving thrombus formation eg. deep-vein thrombosis,
 CC pulmonary embolism, cardiogenic thrombosis, atherosclerosis, myocardial
 CC infarct, reperfusion ischaemia or stroke. The binding moieties are useful
 CC for detection, imaging and localisation of fibrin-containing clots by
 CC magnetic resonance imaging, radioimaging and other imaging methods and
 CC are also useful in the diagnosis and treatment of coronary conditions
 CC where fibrin plays a role. The fibrin binding moieties are useful for
 CC detecting and diagnosing numerous pathophysiologies in which fibrin plays
 CC a role eg. peritoneal adhesions which often occur after surgery or
 CC inflammatory and neoplastic processes and are comprised of a fibrin
 CC network, fibroblasts, macrophages and new blood vessels; rheumatoid
 CC arthritis, lupus or septic arthritis which often have bits of fibrin
 CC containing tissues called rice bodies in the synovial fluid of their
 CC joints; thrombocytopenic purpura, a type of anaemia in which deposits in
 CC arterioles causes turbulent blood flow resulting in stress and
 CC destruction of red blood cells. The fibrin specific agents can also be
 CC used to detect hypoxia or ischaemia of heart, kidney, liver, lung, brain
 CC or other organs, as well as the detection of tumours, diabetic
 CC retinopathy, early or high-risk atherosclerosis and other autoimmune and
 CC inflammatory disorders. Fibrin specific agents also could provide both
 CC direct or surrogate markers of disease models in which hypoxia and
 CC angiogenesis are expected to play a role. The invention is also useful
 CC for screening molecular libraries. The present sequence is a fibrin
 CC binding loop.
 XX
 SQ Sequence 9 AA;

Query Match 87.1%; Score 27; DB 23; Length 9;
Best Local Similarity 50.0%; Pred. No. 9.3e+05;
Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 WXXWXP 6
| | |
DB 3 WESWTF 8

RESULT 4
AAE26733
ID AAE26733 standard; peptide; 15 AA.

XX AC AAE26733;
XX DT 13-DEC-2002 (first entry)
XX DE Fibrin binding peptide #4.

XX KW Fibrin binding peptide; thrombosis; pulmonary embolism; atherosclerosis;
XX KW myocardial infarct; ischaemia; imaging; rheumatoid arthritis; vasotropic;
XX KW anaemia; hypoxia; tumour; diabetic retinopathy; autoimmune disorder;
XX KW inflammatory disorder; angiogenesis; stroke; cerebroprotective.

XX OS Unidentified.
XX PN WO200255544-A2.
XX PD 18-JUL-2002.

XX PF 21-DEC-2001; 2001WO-US49534.
XX PR 23-DEC-2000; 2000US-0747403.

XX PA (DYAX-) DYAX CORP.

XX PI Wescott CR, Beltzer JP, Sato AK;
XX DR WPI; 2002-666875/71.

XX PT Novel synthetic fibrin-binding moiety, useful for detecting, imaging or
XX PT localizing fibrin-containing clots by magnetic resonance imaging,
XX PT radioimaging and for treating diseases involving thrombus formation
XX PT e.g. stroke

XX PS Claim 10; Page 57; 89pp; English.

XX CC The invention relates to a synthetic fibrin binding group having affinity
XX CC for fibrin. The invention is useful for detecting fibrin in a mammalian
XX CC subject which involves (a) detectably labelling the binding group; (b)
XX CC administering to the subject the labelled polypeptide, and (c) detecting
XX CC the labelled polypeptide in the subject. The invention is useful for
XX CC treating a disease involving thrombus formation eg. deep-vein thrombosis,
XX CC pulmonary embolism, cardiogenic thrombosis, atherosclerosis, myocardial
XX CC infarct, reperfusion ischaemia or stroke. The binding moieties are useful
XX CC for detection, imaging and localisation of fibrin-containing clots by
XX CC magnetic resonance imaging, radioimaging and other imaging methods and
XX CC are also useful in the diagnosis and treatment of coronary conditions
XX CC where fibrin plays a role. The fibrin binding moieties are useful for
XX CC detecting and diagnosing numerous pathophysiological in which fibrin plays
XX CC a role eg. peritoneal adhesions which often occur after surgery or
XX CC inflammatory and neoplastic processes and are comprised of a fibrin
XX CC network, fibroblasts, macrophages and new blood vessels; rheumatoid
XX CC arthritis, lupus or septic arthritis which often have bits of fibrin
XX CC containing tissues called rice bodies in the synovial fluid of their
XX CC joints; thrombocytopenic purpura, a type of anaemia in which deposits in
XX CC arterioles causes turbulent blood flow resulting in stress and
XX CC destruction of red blood cells. The fibrin specific agents can also be
XX CC used to detect hypoxia or ischaemia of heart, kidney, liver, lung, brain
XX CC or other organs, as well as the detection of tumours, diabetic
XX CC retinopathy, early or high-risk atherosclerosis and other autoimmune and
XX CC inflammatory disorders. Fibrin specific agents also could provide both
XX CC direct or surrogate markers of disease models in which hypoxia and

CC angiogenesis are expected to play a role. The invention is also useful
CC for screening molecular libraries. The present sequence is a fibrin
CC binding peptide.

SQ Sequence 15 AA;

Query Match 87.1%; Score 27; DB 23; Length 15;
Best Local Similarity 50.0%; Pred. No. 1.6e+02;
Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 WXXWXP 6
| | |
DB 6 WESWTF 11

RESULT 5
AAB01505
ID AAB01505 standard; peptide; 6 AA.

XX AC AAB01505;
XX DT 08-NOV-2000 (first entry)

XX DE Peptide which binds to transcription factor E2F-1 DNA binding domain.
XX KW DNA binding; transcription factor; E2F; E2F-1; cell cycle; DP-1;
XX KW activation; transcription; apoptosis; proliferative disorder;
XX KW psoriasis; restenosis.

XX OS Synthetic.

XX PN WO200044771-A1.
XX PD 03-AUG-2000.

XX PF 26-JAN-2000; 2000WO-GB00227.

XX PR 26-JAN-1999; 99GB-0001710.

XX PA (PROL-) PROLIFIX LTD.

XX PI Mueller R, Kontermann RE, Montigiani S;

XX DR WPI; 2000-532806/48.

XX PT Peptides binding to the DNA binding domain of transcription factor E2F
XX PT and inhibiting cell cycle progression, useful for the treatment of
XX PT cancer

XX PS Example; Page 26; 42pp; English.

XX CC Peptides which bind to the DNA binding domain of transcription
XX CC factor E2F and inhibit cell cycle progression may be useful as
XX CC research agents to investigate the interaction between E2F and DP-1,
XX CC or the activation of transcription by E2F-1/DP-1 heterodimers. They
XX CC may also be used for inducing apoptosis and/or cell cycle arrest in
XX CC a cell, particularly for treatment of cancer or other proliferative
XX CC disorders such as psoriasis and restenosis.

SQ Sequence 6 AA;

Query Match 83.9%; Score 26; DB 21; Length 6;
Best Local Similarity 50.0%; Pred. No. 9.3e+05;
Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 WXXWXP 6
| | |
DB 1 WARWHF 6

RESULT 6
AAB01506
ID AAB01506 standard; peptide; 6 AA.

PT kidney diseases -
 XX Disclosure; Page 12; 89pp; English.
 PS
 CC The present invention relates to peptides (ABR44811-ABR47162 and
 CC ABR47164-ABR47385) derived from the Chemotaxis Inhibitory Protein (CHIPS)
 CC from Staphylococcus aureus. The peptide fragments are useful in the
 CC prophylaxis or treatment of diseases or disorders involving the
 CC C5a-receptor (C5aR) and/or formylated peptide receptor (FPR) or
 CC neutrophils, monocytes and endothelial cells or involving acute or
 CC chronic inflammation reactions. The diseases or disorders include
 CC cardiovascular diseases, skin diseases, genitourinary diseases, joint
 CC gastrointestinal diseases, disease of the central nervous system,
 CC diseases, respiratory diseases and HIV infection.
 XX
 SQ Sequence 6 AA;
 Query Match 83.9%; Score 26; DB 24; Length 6;
 Best Local Similarity 50.0%; Pred. No. 9.3e+05;
 Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 QY 1 WXXWXF 6
 DB 1 WSWFF 6
 RESULT 9
 ABR45314
 ID ABR45314 standard; Peptide; 6 AA.
 AC ABR45314;
 XX
 DT 10-JUN-2003 (first entry)
 DE Staphylococcus aureus CHIPS-related peptide #504.
 XX
 KW CHIPS; Chemotaxis Inhibitory Protein; C5a-receptor; C5aR;
 KW formylated peptide receptor; FPR; neutrophil; monocyte; endothelial cell;
 KW inflammation; cardiovascular disease; central nervous system disease;
 KW gastrointestinal disease; skin disease; genitourinary disease;
 KW joint disease; respiratory disease; HIV infection; antiinflammatory;
 KW cardiant; cerebroprotective; neuroprotective; nontropic; dermatological;
 KW gynecological; immunosuppressive; anti-HIV.
 XX
 OS Staphylococcus aureus.
 OS Synthetic.
 XX
 PN WO2003006048-A1.
 XX
 PD 23-JAN-2003.
 XX
 PF 11-JUL-2001; 2001WO-EP08004.
 XX
 PR 11-JUL-2001; 2001WO-EP08004.
 XX
 PA (JARI-) JARI PHARM BV.
 XX
 PI Van Kessel CPM, Gosselaar-de Haas CJC, Kruijtzer JAW;
 XX
 PI Van Strijp JAG;
 XX
 DR WPI; 2003-247783/25.
 XX
 CC Combination of peptides derived from chemotaxis inhibiting protein from
 CC Staphylococcus aureus (CHIPS) having CHIPS activity, useful in
 CC prophylaxis and treatment of inflammation, cardiovascular, skin and
 CC kidney diseases -
 XX
 PS Disclosure; Page 12; 89pp; English.
 XX
 CC The present invention relates to peptides (ABR44811-ABR47162 and
 CC ABR47164-ABR47385) derived from the Chemotaxis Inhibitory Protein (CHIPS)
 CC from Staphylococcus aureus. The peptide fragments are useful in the
 CC prophylaxis or treatment of diseases or disorders involving the

CC C5a-receptor (C5aR) and/or formylated peptide receptor (FPR) or
 CC neutrophils, monocytes and endothelial cells or involving acute or
 CC chronic inflammation reactions. The diseases or disorders include
 CC cardiovascular diseases, disease of the central nervous system,
 CC gastrointestinal diseases, skin diseases, genitourinary diseases, joint
 CC diseases, respiratory diseases and HIV infection.
 XX
 SQ Sequence 6 AA;
 Query Match 83.9%; Score 26; DB 24; Length 6;
 Best Local Similarity 50.0%; Pred. No. 9.3e+05;
 Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 QY 1 WXXWXF 6
 DB 1 WTWFF 6
 RESULT 10
 ABR45369
 ID ABR45369 standard; Peptide; 6 AA.
 XX
 AC ABR45369;
 XX
 DT 10-JUN-2003 (first entry)
 DE Staphylococcus aureus CHIPS-related peptide #559.
 XX
 KW CHIPS; Chemotaxis Inhibitory Protein; C5a-receptor; C5aR;
 KW formylated peptide receptor; FPR; neutrophil; monocyte; endothelial cell;
 KW inflammation; cardiovascular disease; central nervous system disease;
 KW gastrointestinal disease; skin disease; genitourinary disease;
 KW joint disease; respiratory disease; HIV infection; antiinflammatory;
 KW cardiant; cerebroprotective; neuroprotective; nontropic; dermatological;
 KW gynecological; immunosuppressive; anti-HIV.
 XX
 OS Staphylococcus aureus.
 OS Synthetic.
 XX
 PN WO2003006048-A1.
 XX
 PD 23-JAN-2003.
 XX
 PF 11-JUL-2001; 2001WO-EP08004.
 XX
 PR 11-JUL-2001; 2001WO-EP08004.
 XX
 PA (JARI-) JARI PHARM BV.
 XX
 PI Van Kessel CPM, Gosselaar-de Haas CJC, Kruijtzer JAW;
 XX
 PI Van Strijp JAG;
 XX
 DR WPI; 2003-247783/25.
 XX
 CC Combination of peptides derived from chemotaxis inhibiting protein from
 CC Staphylococcus aureus (CHIPS) having CHIPS activity, useful in
 CC prophylaxis and treatment of inflammation, cardiovascular, skin and
 CC kidney diseases -
 XX
 PS Disclosure; Page 12; 89pp; English.
 XX
 CC The present invention relates to peptides (ABR44811-ABR47162 and
 CC ABR47164-ABR47385) derived from the Chemotaxis Inhibitory Protein (CHIPS)
 CC from Staphylococcus aureus. The peptide fragments are useful in the
 CC prophylaxis or treatment of diseases or disorders involving the
 CC C5a-receptor (C5aR) and/or formylated peptide receptor (FPR) or
 CC neutrophils, monocytes and endothelial cells or involving acute or
 CC chronic inflammation reactions. The diseases or disorders include
 CC cardiovascular diseases, disease of the central nervous system,
 CC gastrointestinal diseases, skin diseases, genitourinary diseases, joint
 CC diseases, respiratory diseases and HIV infection.
 XX
 SQ Sequence 6 AA;

Query Match 83.9%; Score 26; DB 24; Length 6;
 Best Local Similarity 50.0%; Pred. No. 9.3e+05;
 Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Oy 1 WXXWXP 6
 | | | |
 Db 1 WSWWIF 6

RESULT 11
 ABR45370
 ID ABR45370 standard; Peptide; 6 AA.
 AC ABR45370;
 XX
 DT 10-JUN-2003 (first entry)
 DE Staphylococcus aureus CHIPS-related peptide #560.
 KW CHIPS; Chemotaxis Inhibitory Protein; C5a-receptor; C5aR;
 KW formylated peptide receptor; FPR; neutrophil; monocyte; endothelial cell;
 KW inflammation; cardiovascular disease; central nervous system disease;
 KW gastrointestinal disease; skin disease; genitourinary disease;
 KW joint disease; respiratory disease; HIV infection; antiinflammatory;
 KW cardiant; cerebroprotective; neuroprotective; nootropic; dermatological;
 KW gynecological; immunosuppressive; anti-HIV.
 XX
 OS Staphylococcus aureus.
 OS Synthetic.
 XX
 FN WO2003006048-A1.
 XX
 PD 23-JAN-2003.
 XX
 PF 11-JUL-2001; 2001WO-EP08004.
 XX
 PR 11-JUL-2001; 2001WO-EP08004.
 XX
 PA (JARI-) JARI PHARM BV.
 XX
 PI Van Kessel CPM, Gosselaar-de Haas CJC, Kruijtzer JAW;
 PI Van Strijp JAG;
 XX
 DR WPI; 2003-247783/25.
 XX
 CC Combination of peptides derived from chemotaxis inhibiting protein from
 PT Staphylococcus aureus (CHIPS) having CHIPS activity, useful in
 PT prophylaxis and treatment of inflammation, cardiovascular, skin and
 PT kidney diseases -
 XX
 PS Disclosure; Page 12; 89pp; English.
 CC
 CC The present invention relates to peptides (ABR44811-ABR47162 and
 CC ABR47164-ABR47385) derived from the Chemotaxis Inhibitory Protein (CHIPS)
 CC from Staphylococcus aureus. The peptide fragments are useful in the
 CC prophylaxis or treatment of diseases or disorders involving the
 CC C5a-receptor (C5aR) and/or formylated peptide receptor (FPR) or
 CC neutrophils, monocytes and endothelial cells or involving acute or
 CC chronic inflammation reactions. The diseases or disorders include
 CC cardiovascular diseases, disease of the central nervous system,
 CC gastrointestinal diseases, skin diseases, genitourinary diseases, joint
 CC diseases, respiratory diseases and HIV infection.
 XX
 SQ Sequence 6 AA;
 Query Match 83.9%; Score 26; DB 24; Length 6;
 Best Local Similarity 50.0%; Pred. No. 9.3e+05;
 Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Oy 1 WXXWXP 6
 | | | |
 Db 1 WTFWIF 6

RESULT 13
 ABR45426
 ID ABR45426 standard; Peptide; 6 AA.
 XX
 AC ABR45426;
 XX

RESULT 12
 ABR45425
 ID ABR45425 standard; Peptide; 6 AA.
 XX
 AC ABR45425;
 XX
 DT 10-JUN-2003 (first entry)
 DE Staphylococcus aureus CHIPS-related peptide #615.
 XX
 KW CHIPS; Chemotaxis Inhibitory Protein; C5a-receptor; C5aR;
 KW formylated peptide receptor; FPR; neutrophil; monocyte; endothelial cell;
 KW inflammation; cardiovascular disease; central nervous system disease;
 KW gastrointestinal disease; skin disease; genitourinary disease;
 KW joint disease; respiratory disease; HIV infection; antiinflammatory;
 KW cardiant; cerebroprotective; neuroprotective; nootropic; dermatological;
 KW gynecological; immunosuppressive; anti-HIV.
 XX
 OS Staphylococcus aureus.
 OS Synthetic.
 XX
 FN WO2003006048-A1.
 XX
 PD 23-JAN-2003.
 XX
 PF 11-JUL-2001; 2001WO-EP08004.
 XX
 PR 11-JUL-2001; 2001WO-EP08004.
 XX
 PA (JARI-) JARI PHARM BV.
 XX
 PI Van Kessel CPM, Gosselaar-de Haas CJC, Kruijtzer JAW;
 PI Van Strijp JAG;
 XX
 DR WPI; 2003-247783/25.
 XX
 CC Combination of peptides derived from chemotaxis inhibiting protein from
 PT Staphylococcus aureus (CHIPS) having CHIPS activity, useful in
 PT prophylaxis and treatment of inflammation, cardiovascular, skin and
 PT kidney diseases -
 XX
 PS Disclosure; Page 12; 89pp; English.
 CC
 CC The present invention relates to peptides (ABR44811-ABR47162 and
 CC ABR47164-ABR47385) derived from the Chemotaxis Inhibitory Protein (CHIPS)
 CC from Staphylococcus aureus. The peptide fragments are useful in the
 CC prophylaxis or treatment of diseases or disorders involving the
 CC C5a-receptor (C5aR) and/or formylated peptide receptor (FPR) or
 CC neutrophils, monocytes and endothelial cells or involving acute or
 CC chronic inflammation reactions. The diseases or disorders include
 CC cardiovascular diseases, disease of the central nervous system,
 CC gastrointestinal diseases, skin diseases, genitourinary diseases, joint
 CC diseases, respiratory diseases and HIV infection.
 XX
 SQ Sequence 6 AA;
 Query Match 83.9%; Score 26; DB 24; Length 6;
 Best Local Similarity 50.0%; Pred. No. 9.3e+05;
 Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Oy 1 WXXWXP 6
 | | | |
 Db 1 WSWWIF 6

RESULT 13
 ABR45426
 ID ABR45426 standard; Peptide; 6 AA.
 XX
 AC ABR45426;
 XX

DT 10-JUN-2003 (first entry)
 XX Staphylococcus aureus CHIPS-related peptide #516.
 DE
 XX CHIPS; Chemotaxis Inhibitory Protein; C5a-receptor; C5aR;
 KW formylated peptide receptor; FPR; neutrophil; monocyte; endothelial cell;
 KW inflammation; cardiovascular disease; central nervous system disease;
 KW gastrointestinal disease; skin disease; genitourinary disease;
 KW joint disease; respiratory disease; HIV infection; antiinflammatory;
 KW cardiant; cerebroprotective; neuroprotective; nontropic; dermatological;
 KW gynecological; immunosuppressive; anti-HIV.
 XX Staphylococcus aureus.
 OS Synthetic.
 XX WO2003006048-A1.
 PN 23-JAN-2003.
 PD 11-JUL-2001; 2001WO-EP08004.
 XX 11-JUL-2001; 2001WO-EP08004.
 XX 11-JUL-2001; 2001WO-EP08004.
 XX (JARI-) JARI PHARM BV.
 PA Van Kessel CPM, Gosselaar-de Haas CJC, Kruijtzer JAW;
 XX Van Strijp JAG;
 PI WPI; 2003-247783/25.
 XX
 XX Combination of peptides derived from chemotaxis inhibiting protein from
 PT Staphylococcus aureus (CHIPS) having CHIPS activity, useful in
 PT prophylaxis and treatment of inflammation, cardiovascular, skin and
 PT kidney diseases -
 XX Disclosure; Page 12; 89pp; English.
 XX The present invention relates to peptides (ABR44811-ABR47162 and
 CC ABR47164-ABR47385) derived from the Chemotaxis Inhibitory Protein (CHIPS)
 CC from Staphylococcus aureus. The peptide fragments are useful in the
 CC prophylaxis or treatment of diseases or disorders involving the
 CC C5a-receptor (C5aR) and/or formylated peptide receptor (FPR) or
 CC neutrophils, monocytes and endothelial cells or involving acute or
 CC chronic inflammation reactions. The diseases or disorders include
 CC cardiovascular diseases, disease of the central nervous system,
 CC gastrointestinal diseases, skin diseases, genitourinary diseases, joint
 CC diseases, respiratory diseases and HIV infection.
 XX Sequence 6 AA;
 SQ Query Match 83.9%; Score 26; DB 24; Length 6;
 Best Local Similarity 50.0%; Pred. NO. 9.3e+05;
 Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 QY 1 WXXWXP 6
 DB 1 WTFWLF 6
 RESULT 14
 ABR45481
 ID ABR45481 standard; Peptide; 6 AA.
 XX
 AC ABR45481;
 XX
 DT 10-JUN-2003 (first entry)
 XX Staphylococcus aureus CHIPS-related peptide #671.
 DE
 XX CHIPS; Chemotaxis Inhibitory Protein; C5a-receptor; C5aR;
 KW formylated peptide receptor; FPR; neutrophil; monocyte; endothelial cell;
 KW inflammation; cardiovascular disease; central nervous system disease;
 KW gastrointestinal disease; skin disease; genitourinary disease;

KW Joint disease; respiratory disease; HIV infection; antiinflammatory;
 KW cardiant; cerebroprotective; neuroprotective; nontropic; dermatological;
 KW gynecological; immunosuppressive; anti-HIV.
 XX Staphylococcus aureus.
 OS Synthetic.
 XX WO2003006048-A1.
 PN 23-JAN-2003.
 PD 11-JUL-2001; 2001WO-EP08004.
 XX 11-JUL-2001; 2001WO-EP08004.
 XX 11-JUL-2001; 2001WO-EP08004.
 XX (JARI-) JARI PHARM BV.
 PA Van Kessel CPM, Gosselaar-de Haas CJC, Kruijtzer JAW;
 XX Van Strijp JAG;
 PI WPI; 2003-247783/25.
 XX
 XX Combination of peptides derived from chemotaxis inhibiting protein from
 PT Staphylococcus aureus (CHIPS) having CHIPS activity, useful in
 PT prophylaxis and treatment of inflammation, cardiovascular, skin and
 PT kidney diseases -
 XX Disclosure; Page 13; 89pp; English.
 XX The present invention relates to peptides (ABR44811-ABR47162 and
 CC ABR47164-ABR47385) derived from the Chemotaxis Inhibitory Protein (CHIPS)
 CC from Staphylococcus aureus. The peptide fragments are useful in the
 CC prophylaxis or treatment of diseases or disorders involving the
 CC C5a-receptor (C5aR) and/or formylated peptide receptor (FPR) or
 CC neutrophils, monocytes and endothelial cells or involving acute or
 CC chronic inflammation reactions. The diseases or disorders include
 CC cardiovascular diseases, disease of the central nervous system,
 CC gastrointestinal diseases, skin diseases, genitourinary diseases, joint
 CC diseases, respiratory diseases and HIV infection.
 XX Sequence 6 AA;
 SQ Query Match 83.9%; Score 26; DB 24; Length 6;
 Best Local Similarity 50.0%; Pred. NO. 9.3e+05;
 Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 QY 1 WXXWXP 6
 DB 1 WSWFVF 6
 RESULT 15
 ABR45482
 ID ABR45482 standard; Peptide; 6 AA.
 XX
 AC ABR45482;
 XX
 DT 10-JUN-2003 (first entry)
 XX Staphylococcus aureus CHIPS-related peptide #672.
 DE
 XX CHIPS; Chemotaxis Inhibitory Protein; C5a-receptor; C5aR;
 KW formylated peptide receptor; FPR; neutrophil; monocyte; endothelial cell;
 KW inflammation; cardiovascular disease; central nervous system disease;
 KW gastrointestinal disease; skin disease; genitourinary disease;
 KW joint disease; respiratory disease; HIV infection; antiinflammatory;
 KW cardiant; cerebroprotective; neuroprotective; nontropic; dermatological;
 KW gynecological; immunosuppressive; anti-HIV.
 XX Staphylococcus aureus.
 OS Synthetic.
 XX WO2003006048-A1.
 PN

XX PD 23-JAN-2003.
 XX PF 11-JUL-2001; 2001WO-EP08004.
 XX PR 11-JUL-2001; 2001WO-EP08004.
 XX PA (JARI-) JARI PHARM BV.
 XX PI Van Kessel CPM, Gosselaar-de Haas CJC, Kruijtzer JAW;
 XX PI Van Strijp JAG;
 XX DR WPI; 2003-247783/25.
 XX CC Combination of peptides derived from chemotaxis inhibiting protein from
 PT Staphylococcus aureus (CHIPS) having CHIPS activity, useful in
 PT prophylaxis and treatment of inflammation, cardiovascular, skin and
 PT kidney diseases -
 XX PS Disclosure; Page 13; 89pp; English.
 XX CC The present invention relates to peptides (ABR44811-ABR47162 and
 CC ABR47164-ABR47385) derived from the Chemotaxis Inhibitory Protein (CHIPS)
 CC from Staphylococcus aureus. The peptide fragments are useful in the
 CC prophylaxis or treatment of diseases or disorders involving the
 CC C5a-receptor (C5aR) and/or formylated peptide receptor (FPR) or
 CC neutrophils, monocytes and endothelial cells or involving acute or
 CC chronic inflammation reactions. The diseases or disorders include
 CC cardiovascular diseases, disease of the central nervous system,
 CC gastrointestinal diseases, skin diseases, genitourinary diseases, joint
 CC diseases, respiratory diseases and HIV infection.
 XX SQ Sequence 6 AA;
 Query Match 83.9%; Score 26; DB 24; Length 6;
 Best Local Similarity 50.0%; Pred. No. 9.3e+05;
 Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 QY 1 WXXWXXF 6
 | | | |
 Db 1 WTFWVF 6
 RESULT 16
 ABR45593
 ID ABR45593 standard; Peptide; 6 AA.
 XX AC ABR45593;
 XX DT 10-JUN-2003 (first entry)
 XX DE Staphylococcus aureus CHIPS-related peptide #783.
 XX KW CHIPS; Chemotaxis Inhibitory Protein; C5a-receptor; C5aR;
 KW formylated peptide receptor; FPR; neutrophil; monocyte; endothelial cell;
 KW inflammation; cardiovascular disease; central nervous system disease;
 KW gastrointestinal disease; skin disease; genitourinary disease;
 KW joint disease; respiratory disease; HIV infection; antiinflammatory;
 KW cardiant; cerebroprotective; neuroprotective; nontropic; dermatological;
 KW gynecological; immunosuppressive; anti-HIV.
 XX OS Staphylococcus aureus.
 XX OS Synthetic.
 XX PN WO2003006048-A1.
 XX PD 23-JAN-2003.
 XX PF 11-JUL-2001; 2001WO-EP08004.
 XX PR 11-JUL-2001; 2001WO-EP08004.
 XX PA (JARI-) JARI PHARM BV.

XX PI Van Kessel CPM, Gosselaar-de Haas CJC, Kruijtzer JAW;
 XX PI Van Strijp JAG;
 XX DR WPI; 2003-247783/25.
 XX CC Combination of peptides derived from chemotaxis inhibiting protein from
 PT Staphylococcus aureus (CHIPS) having CHIPS activity, useful in
 PT prophylaxis and treatment of inflammation, cardiovascular, skin and
 PT kidney diseases -
 XX PS Disclosure; Page 13; 89pp; English.
 XX CC The present invention relates to peptides (ABR44811-ABR47162 and
 CC ABR47164-ABR47385) derived from the Chemotaxis Inhibitory Protein (CHIPS)
 CC from Staphylococcus aureus. The peptide fragments are useful in the
 CC prophylaxis or treatment of diseases or disorders involving the
 CC C5a-receptor (C5aR) and/or formylated peptide receptor (FPR) or
 CC neutrophils, monocytes and endothelial cells or involving acute or
 CC chronic inflammation reactions. The diseases or disorders include
 CC cardiovascular diseases, disease of the central nervous system,
 CC gastrointestinal diseases, skin diseases, genitourinary diseases, joint
 CC diseases, respiratory diseases and HIV infection.
 XX SQ Sequence 6 AA;
 Query Match 83.9%; Score 26; DB 24; Length 6;
 Best Local Similarity 50.0%; Pred. No. 9.3e+05;
 Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 QY 1 WXXWXXF 6
 | | | |
 Db 1 WSPWVF 6
 RESULT 17
 ABR45594
 ID ABR45594 standard; Peptide; 6 AA.
 XX AC ABR45594;
 XX DT 10-JUN-2003 (first entry)
 XX DE Staphylococcus aureus CHIPS-related peptide #784.
 XX KW CHIPS; Chemotaxis Inhibitory Protein; C5a-receptor; C5aR;
 KW formylated peptide receptor; FPR; neutrophil; monocyte; endothelial cell;
 KW inflammation; cardiovascular disease; central nervous system disease;
 KW gastrointestinal disease; skin disease; genitourinary disease;
 KW joint disease; respiratory disease; HIV infection; antiinflammatory;
 KW cardiant; cerebroprotective; neuroprotective; nontropic; dermatological;
 KW gynecological; immunosuppressive; anti-HIV.
 XX OS Staphylococcus aureus.
 XX OS Synthetic.
 XX PN WO2003006048-A1.
 XX PD 23-JAN-2003.
 XX PF 11-JUL-2001; 2001WO-EP08004.
 XX PR 11-JUL-2001; 2001WO-EP08004.
 XX PA (JARI-) JARI PHARM BV.
 XX PI Van Kessel CPM, Gosselaar-de Haas CJC, Kruijtzer JAW;
 XX PI Van Strijp JAG;
 XX DR WPI; 2003-247783/25.
 XX CC Combination of peptides derived from chemotaxis inhibiting protein from
 PT Staphylococcus aureus (CHIPS) having CHIPS activity, useful in

PT prophylaxis and treatment of inflammation, cardiovascular, skin and
 XX kidney diseases
 PS Disclosure; Page 13; 89pp; English.
 XX
 CC The present invention relates to peptides (ABR44811-ABR47162 and
 CC ABR47164-ABR47385) derived from the Chemotaxis Inhibitory Protein (CHIPS)
 CC from *Staphylococcus aureus*. The peptide fragments are useful in the
 CC prophylaxis or treatment of diseases or disorders involving the
 CC C5a-receptor (C5aR) and/or formylated peptide receptor (FPR) or
 CC neutrophils, monocytes and endothelial cells or involving acute or
 CC chronic inflammation reactions. The diseases or disorders include
 CC cardiovascular diseases, disease of the central nervous system,
 CC gastrointestinal diseases, skin diseases, genitourinary diseases, joint
 CC diseases, respiratory diseases and HIV infection.
 XX
 SQ Sequence 6 AA;
 Query Match 83.9%; Score 26; DB 24; Length 6;
 Best Local Similarity 50.0%; Pred. No. 9.3e+05;
 Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 QY 1 WXXWXP 6
 Db 1 WTFWYF 6
 RESULT 18
 AAE26775
 ID AAE26775 standard; peptide; 9 AA.
 XX
 AC AAE26775;
 XX
 DT 13-DEC-2002 (first entry)
 XX
 DE Fibrin binding peptide #28.
 XX
 KW Fibrin binding peptide; thrombosis; pulmonary embolism; atherosclerosis;
 KW myocardial infarct; ischaemia; imaging; rheumatoid arthritis; vasotropic;
 KW anaemia; hypoxia; tumour; diabetic retinopathy; autoimmune disorder;
 KW inflammatory disorder; angiogenesis; stroke; cerebroprotective.
 XX
 OS Unidentified.
 XX
 FN WO200255544-A2.
 XX
 PD 18-JUL-2002.
 XX
 PF 21-DEC-2001; 2001WO-US49534.
 XX
 PR 23-DEC-2000; 2000US-0747403.
 XX
 PA (DYAX-) DYAX CORP.
 XX
 PI Wescott CR, Beltzer JP, Sato AK;
 XX
 DR WPI; 2002-666875/71.
 XX
 XX Novel synthetic fibrin-binding moiety, useful for detecting, imaging or
 PT localizing fibrin-containing clots by magnetic resonance imaging,
 PT radioimaging and for treating diseases involving thrombus formation
 PT e.g. stroke -
 XX
 XX Claim 4; Page 55; 89pp; English.
 PS
 CC The invention relates to a synthetic fibrin binding group having affinity
 CC for fibrin. The invention is useful for detecting fibrin in a mammalian
 CC subject which involves (a) detectably labelling the binding group; (b)
 CC administering to the subject the labelled polypeptide, and (c) detecting
 CC the labelled polypeptide in the subject. The invention is useful for
 CC treating a disease involving thrombus formation eg. deep-vein thrombosis,
 CC pulmonary embolism, cardiogenic thrombosis, atherosclerosis, myocardial
 CC infarct, reperfusion ischaemia or stroke. The binding moieties are useful

CC for detection, imaging and localisation of fibrin-containing clots by
 CC magnetic resonance imaging, radioimaging and other imaging methods and
 CC are also useful in the diagnosis and treatment of coronary conditions
 CC where fibrin plays a role. The fibrin binding moieties are useful for
 CC detecting and diagnosing numerous pathophysiological in which fibrin plays
 CC a role eg. peritoneal adhesions which often occur after surgery or
 CC inflammatory and neoplastic processes and are comprised of a fibrin
 CC network, fibroblasts, macrophages and new blood vessels; rheumatoid
 CC arthritis, lupus or septic arthritis which often have bits of fibrin
 CC containing tissues called rice bodies in the synovial fluid of their
 CC joints; thrombocytopenic purpura, a type of anaemia in which deposits in
 CC arterioles causes turbulent blood flow resulting in stress and
 CC destruction of red blood cells. The fibrin specific agents can also be
 CC used to detect hypoxia or ischaemia of heart, kidney, liver, lung, brain
 CC or other organs, as well as the detection of tumours, diabetic
 CC retinopathy, early or high-risk atherosclerosis and other autoimmune and
 CC inflammatory disorders. Fibrin specific agents also could provide both
 CC direct or surrogate markers of disease models in which hypoxia and
 CC angiogenesis are expected to play a role. The invention is also useful
 CC for screening molecular libraries. The present sequence is a fibrin
 CC binding peptide.
 XX
 SQ Sequence 9 AA;
 Query Match 83.9%; Score 26; DB 23; Length 9;
 Best Local Similarity 50.0%; Pred. No. 9.3e+05;
 Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 QY 1 WXXWXP 6
 Db 3 WGSWKF 8
 RESULT 19
 AAY65508
 ID AAY65508 standard; Peptide; 15 AA.
 XX
 AC AAY65508;
 XX
 DT 01-FEB-2000 (first entry)
 XX
 DE Oestrogen receptor alpha binding peptide 5PT.
 XX
 KW Oestrogen receptor; estrogen; estradiol; oestrogen response element;
 KW BRE; binding; biological activity; fingerprint; molecular braille;
 KW cellular braille; modulation; tamoxifen; breast cancer; ovarian cancer;
 KW menopause; osteoporosis; selective oestrogen receptor modulator;
 KW identification; characterisation; classification.
 XX
 OS Synthetic.
 OS Homo sapiens.
 XX
 FN WO9954728-A2.
 XX
 PD 28-OCT-1999.
 XX
 XX 26-MAR-1999; 99WO-US06664.
 PF
 XX 23-APR-1998; 98US-0082756.
 PR
 PR 09-SEP-1998; 98US-0099656.
 PR
 PR 08-JAN-1999; 99US-0115345.
 XX
 XX (NOVA-) NOVALON PHARM CORP.
 PA
 XX Paige LA, Hamilton PT, Fowlkes DM, Buehrer B, Barnett T;
 PI McDonnell DP, Christensen DJ;
 XX WPI; 2000-013281/01.
 DR
 XX Methods for identifying new receptor modulators, especially estrogen
 PT modulators to treat tamoxifen refractory breast cancer -
 XX
 PS Example 2.1; Page 159; 219pp; English.

XX The present invention describes a method for predicting the biological
 CC activity of new receptor modulating compounds (II) using novel oligomeric
 CC peptides (bikeys) which have differential abilities to bind to 2
 CC different receptor conformations. The method is used to identify new
 CC drugs that are physiological or pharmacological agonists/antagonists and
 CC that target various receptors, which are involved in certain disease
 CC conditions. The system may be used as a primary screening tool to
 CC identify hits, to classify lead compounds from a drug screen to,
 CC characterise selective oestrogen receptor modulators (SERMs) in terms of
 CC agonist and antagonist function and to predict possible clinical effects
 CC of SERMs such as tissue and receptor specificity. The method can also be
 CC applied to the fractionation of mixtures of SERMs to determine which
 CC components are producing agonistic and antagonistic activity. The method
 CC may be used with other receptors (e.g. progesterone, androgen,
 CC glucocorticoid, thyroid, vitamin D, beta-adrenergic, dopamine and
 CC epidermal growth factor), to identify, characterise and classify
 CC modulators of receptor activity. Peptides comprising a LXXLL motif may
 CC be used to modulate the oestrogen receptor in treating e.g. breast and
 CC ovarian cancer and ameliorating the effects of menopause, including
 CC osteoporosis. AAY65439 to AAY65652 represent oestrogen receptor,
 CC estradiol receptor and oestrogen response element binding peptides given
 CC in the exemplification of the present invention. AAZ35740 to AAZ35745
 CC represent oligonucleotides used in the exemplification of the present
 CC invention.

XX Sequence 15 AA;

Query Match 83.9%; Score 26; DB 21; Length 15;
 Best Local Similarity 50.0%; Pred. No. 2.4e+02;
 Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 1 WXXWXF 6
 | | | |
 Db 8 WYDWF 13

RESULT 20

AB99042
 ID ABB99042 standard; Peptide; 15 AA.

XX AC ABB99042;

DT 24-JAN-2003 (first entry)

DE Serine/threonine protein kinase 9.13 N-terminal peptide sequence.

XX Serine/threonine protein kinase 9.13; enzyme; tumour;
 KW embryonic development malformation; protein metabolic disorder.

OS Unidentified.

XX CN1352273-A.

PN 05-JUN-2002.

XX 02-NOV-2000; 2000CN-0127173.

PR 02-NOV-2000; 2000CN-0127173.

XX (BODE-) BODE GENE DEV CO LTD SHANGHAI.

XX Mao Y, Xie Y;

XX WPI; 2002-637138/69.

XX New serine/threonine protein kinase 9.13 polypeptide for treating
 PT embryonic development malformation, various tumours and protein
 PT metabolic disorder -

XX Example 5; Page 21 (disclosure); 35pp; Chinese.

XX The present invention discloses a serine/threonine protein kinase 9.13,

CC the polynucleotides encoding the polypeptide, and a DNA recombination
 CC process to produce the polypeptide. The present invention also discloses
 CC applying the polypeptide in treating various diseases, such as embryonic
 CC development malformation, various tumours and protein metabolic disorder.
 CC The present invention also discloses the antagonist resisting the
 CC polypeptide and its treatment effect. The current sequence represents the
 CC serine/threonine protein kinase 9.13 N-terminal peptide sequence.

XX Sequence 15 AA;

Query Match 83.9%; Score 26; DB 23; Length 15;
 Best Local Similarity 50.0%; Pred. No. 2.4e+02;
 Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 1 WXXWXF 6
 | | | |
 Db 6 WLFWSF 11

RESULT 21

AAE26759
 ID AAE26759 standard; peptide; 15 AA.

XX AC AAE26759;

XX 13-DEC-2002 (first entry)

XX Fibrin binding peptide #12.

XX Fibrin binding peptide; thrombosis; pulmonary embolism; atherosclerosis;
 KW myocardial infarct; ischaemia; imaging; rheumatoid arthritis; vasotropic;
 KW anaemia; hypoxia; tumour; diabetic retinopathy; autoimmune disorder;
 KW inflammatory disorder; angiogenesis; stroke; cerebroprotective.

XX OS Unidentified.

XX WO200255544-A2.

XX 18-JUL-2002.

XX 21-DEC-2001; 2001WO-US49534.

XX 23-DEC-2000; 2000US-0747403.

XX (DYAX-) DYAX CORP.

XX Wescott CR, Beltzer JP, Sato AK;

XX WPI; 2002-666875/71.

XX Novel synthetic fibrin-binding moiety, useful for detecting, imaging or
 PT localizing fibrin-containing clots by magnetic resonance imaging,
 PT radioimaging and for treating diseases involving thrombus formation
 PT e.g. stroke -

XX Claim 10; Page 58; 89pp; English.

XX The invention relates to a synthetic fibrin binding group having affinity
 CC for fibrin. The invention is useful for detecting fibrin in a mammalian
 CC subject which involves (a) detectably labelling the binding group; (b)
 CC administering to the subject the labelled polypeptide, and (c) detecting
 CC the labelled polypeptide in the subject. The invention is useful for
 CC treating a disease involving thrombus formation eg. deep-vein thrombosis,
 CC pulmonary embolism, cardiogenic thrombosis, atherosclerosis, myocardial
 CC infarct, reperfusion ischaemia or stroke. The binding moieties are useful
 CC for detection, imaging and localisation of fibrin-containing clots by
 CC magnetic resonance imaging, radioimaging and other imaging methods and
 CC are also useful in the diagnosis and treatment of coronary conditions
 CC where fibrin plays a role. The fibrin binding moieties are useful for
 CC detecting and diagnosing numerous pathophysiological in which fibrin plays
 CC a role eg. peritoneal adhesions which often occur after surgery or
 CC inflammatory and neoplastic processes and are comprised of a fibrin
 CC network, fibroblasts, macrophages and new blood vessels; rheumatoid

CC arthritis, lupus or septic arthritis which often have bits of fibrin
 CC containing tissues called rice bodies in the synovial fluid of their
 CC joints; thrombocytopenic purpura, a type of anaemia in which deposits in
 CC arterioles causes turbulent blood flow resulting in stress and
 CC destruction of red blood cells. The fibrin specific agents can also be
 CC used to detect hypoxia or ischaemia of heart, kidney, liver, lung, brain
 CC or other organs, as well as the detection of tumours, diabetic
 CC retinopathy, early or high-risk atherosclerosis and other autoimmune and
 CC inflammatory disorders. Fibrin specific agents also could provide both
 CC direct or surrogate markers of disease models in which hypoxia and
 CC angiogenesis are expected to play a role. The invention is also useful
 CC for screening molecular libraries. The present sequence is a fibrin
 CC binding peptide.

XX Sequence 15 AA;

Query Match 83.9%; Score 26; DB 23; Length 15;
 Best Local Similarity 50.0%; Pred. No. 2.4e+02;
 Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 WXXWXP 6
 Db 6 WGSWKP 11

RESULT 22

AAU86245
 ID AAU86245 standard; Peptide; 15 AA.

AC AAU86245;

XX 21-MAY-2002 (first entry)

XX Oestrogen receptor alpha binding peptide 5PT.

KW Oestrogen receptor; breast cancer; combinatorial peptide library;
 KW receptor modulating compound.

OS Synthetic.

PN WO200204956-A2.

XX 17-JAN-2002.

XX 11-JUL-2001; 2001WO-US21867.

XX 12-JUL-2000; 2000US-0614865.

PR 21-MAY-2001; 2001US-0860688.

XX (KARO-) KARO BIO USA INC.

PI Fowlkes DM, Barnett TR, Buehrer B;

XX WPI; 2002-154969/20.

XX Identifying receptor-binding peptides comprises screening combinatorial
 PT peptide library presented in form of cells each of which coexpress one
 PT peptide member and receptor with signal producing system for reporting
 PT binding

XX Disclosure; Page 142; 175pp; English.

CC The invention relates to identifying a binding peptide which binds a
 CC receptor and which is a member of a combinatorial library of peptides,
 CC comprising screening a combinatorial peptide library presented in the
 CC form of cells which coexpress the receptor or its ligand-binding receptor
 CC moiety and one member of the library, together with a signal producing
 CC system for reporting binding of the peptide to the receptor. Also
 CC included is a method for predicting the receptor-modulating activity of a
 CC compound which modulates the biological activity of a receptor
 CC comprising (a) identifying peptides which bind the receptor by the
 CC method above, (b) using a number of the peptides to predict the receptor-
 CC modulating activity of a compound by (i) providing a panel of

CC identified peptides, where the members differ in their ability to bind
 CC to the receptor depending on reference conformations the receptor is
 CC in, where the effect of a number of reference substances known to
 CC modulate the biological activity of the receptor on the binding of each
 CC member of the panel is known and is characterised as a reference
 CC fingerprint for each reference substance, (ii) screening a test substance
 CC of unknown activity relative to the receptor to determine its effect on
 CC the binding of each member of the panel to the receptor, thereby
 CC obtaining a test fingerprint for the test substance, (iii) comparing the
 CC test fingerprint to the reference fingerprints and (iv) predicting the
 CC biological activity of the test substance based on the assumption that
 CC its biological activity will be similar to that of reference substances
 CC with similar fingerprints. The method is useful for identifying a binding
 CC peptide which binds a vertebrate, mammalian, preferably human receptor,
 CC an intracellular, nuclear, oestrogen or androgen receptor. The identified
 CC peptides which bind to the receptor are useful for predicting the
 CC receptor-modulating activity of a compound (e.g. ant/agonists).
 CC The receptor-binding library members are useful in the prediction of the
 CC ability of small organic molecules, suitable for pharmaceutical use
 CC (e.g. in the case of oestrogen receptors, for breast cancer treatment),
 CC to interact with the receptor. The analyte-binding molecules can also be
 CC used for in vivo imaging. The method has several advantages over whole
 CC animal-based assay systems in that the same technology can be applied to
 CC a variety of different receptors, the system can be used for high
 CC throughput screening and compound characterisation, and gives very
 CC distinct patterns for agonists and antagonists of receptor activity using
 CC very much less protein. The present sequence is an oestrogen receptor
 CC binding peptide from a combinatorial peptide library.

XX Sequence 15 AA;

Query Match 83.9%; Score 26; DB 23; Length 15;
 Best Local Similarity 50.0%; Pred. No. 2.4e+02;
 Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 WXXWXP 6
 Db 8 WYDWTF 13

RESULT 23

AAU57391
 ID AAR57391 standard; Protein; 6 AA.

XX AAR57391;

XX 21-MAR-1995 (first entry)

XX Peptide for treating diseases related to anti-DNA antibodies.

KW Carrier; absorbing agent; treatment; anti-DNA antibody; immune complex.

OS Synthetic.

XX JP06192290-A.

XX 12-JUL-1994.

XX 18-JAN-1993; 93JP-0006098.

XX 30-SEP-1992; 92JP-0261821.

XX (KURS) KURARAY CO LTD.

XX WPI; 1994-260510/32.

XX A peptide and an adsorbing agent prep. by immobilising it on a
 PT carrier - useful for treatment of diseases related to anti-DNA
 PT antibodies and immune complexes

XX Disclosure; Page 11; 14pp; Japanese.

XX The sequences given in AAR57386-413 are peptides which are all covered

CC by the claimed generic formula:
 CC H-X-(A-B)n-Y-Z
 CC A = Trp, Phe or a peptide fragment consisting of 2 residues;
 CC B = Trp, Phe, Asn or Glu;
 CC X and Y = a bond or Asp, Glu, Arg, Lys, His or a peptide fragment
 CC consisting of 2-10 residues, provided that at least one of
 CC X or Y are present;
 CC Z = OH or NH₂; and
 CC n = 2-5.
 CC These peptides may be immobilised on a carrier in the preparation of an
 CC absorbing agent which may be used in the treatment of diseases related
 CC to anti-DNA antibodies and/or immune complex.

XX SQ Sequence 6 AA;
 Query Match 80.6%; Score 25; DB 15; Length 6;
 Best Local Similarity 50.0%; Pred. No. 9.3e+05;
 Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 1 WXXWXP 6
 | | | |
 Db 1 WFWWFF 6

RESULT 24
 AAB01492
 ID AAB01492 standard; peptide; 6 AA.

XX AC AAB01492;
 XX 08-NOV-2000 (first entry)
 XX Peptide which binds to transcription factor E2F-1 DNA binding domain.
 XX DNA binding; transcription factor; E2F; E2F-1; cell cycle; DP-1;
 KW activation; transcription; apoptosis; proliferative disorder;
 KW psoriasis; restenosis.

XX OS Synthetic.
 XX WO200044771-A1.
 XX 03-AUG-2000.

XX PF 26-JAN-2000; 2000WO-GB00227.
 XX PR 26-JAN-1999; 99GB-0001710.
 XX (PROL-) PROLIFIX LTD.

XX PI Mueller R, Kontermann RE, Montigiani S;
 XX WPI; 2000-532806/48.
 XX Peptides binding to the DNA binding domain of transcription factor E2F
 PT and inhibiting cell cycle progression, useful for the treatment of
 PT cancer

XX PS Claim 6; Page 2; 42pp; English.
 XX Peptides which bind to the DNA binding domain of transcription
 CC factor E2F and inhibit cell cycle progression may be useful as
 CC research agents to investigate the interaction between E2F and DP-1,
 CC or the activation of transcription by E2F-1/DP-1 heterodimers. They
 CC may also be used for inducing apoptosis and/or cell cycle arrest in
 CC a cell, particularly for treatment of cancer or other proliferative
 CC disorders such as psoriasis and restenosis.

XX SQ Sequence 6 AA;
 Query Match 80.6%; Score 25; DB 21; Length 6;
 Best Local Similarity 50.0%; Pred. No. 9.3e+05;
 Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 1 WXXWXP 6
 | | | |
 Db 1 WFWWFF 6

RESULT 25
 AAB01497
 ID AAB01497 standard; peptide; 6 AA.

XX AC AAB01497;
 XX 08-NOV-2000 (first entry)
 XX Peptide which binds to transcription factor E2F-1 DNA binding domain.
 XX DNA binding; transcription factor; E2F; E2F-1; cell cycle; DP-1;
 KW activation; transcription; apoptosis; proliferative disorder;
 KW psoriasis; restenosis.

XX OS Synthetic.

XX FH Key Location/Qualifiers
 FT Misc-difference 2 /note= "Any amino acid"
 FT Misc-difference 3 /note= "Any amino acid"
 FT Misc-difference 5 /note= "Any amino acid"

XX PN WO200044771-A1.

XX PD 03-AUG-2000.

XX PF 26-JAN-2000; 2000WO-GB00227.

XX PR 26-JAN-1999; 99GB-0001710.

XX PA (PROL-) PROLIFIX LTD.

XX PI Mueller R, Kontermann RE, Montigiani S;

XX WPI; 2000-532806/48.

XX Peptides binding to the DNA binding domain of transcription factor E2F
 PT and inhibiting cell cycle progression, useful for the treatment of
 PT cancer

XX PS Claim 4; Page 9; 42pp; English.

XX CC Peptides which bind to the DNA binding domain of transcription
 CC factor E2F and inhibit cell cycle progression may be useful as
 CC research agents to investigate the interaction between E2F and DP-1,
 CC or the activation of transcription by E2F-1/DP-1 heterodimers. They
 CC may also be used for inducing apoptosis and/or cell cycle arrest in
 CC a cell, particularly for treatment of cancer or other proliferative
 CC disorders such as psoriasis and restenosis.

XX SQ Sequence 6 AA;

Query Match 80.6%; Score 25; DB 21; Length 6;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 WXXWXP 6
 | | | |
 Db 1 WXXWXP 6

RESULT 26
 AAB01499
 ID AAB01499 standard; peptide; 6 AA.
 XX

AC AAB01499;
 XX 08-NOV-2000 (first entry)
 XX Peptide which binds to transcription factor E2F-1 DNA binding domain.
 XX DNA binding; transcription factor; E2F; E2F-1; cell cycle; DP-1;
 KW activation; transcription; apoptosis; proliferative disorder;
 KW psoriasis; restenosis.
 XX Synthetic.
 OS
 XX Key Location/Qualifiers
 FH Misc-difference 2 /note= "Any amino acid"
 FT Misc-difference 3 /note= "Any amino acid"
 FT
 FT
 FT
 XX WO20004771-A1.
 XX 03-AUG-2000.
 XX 26-JAN-2000; 2000WO-GB00227.
 XX 26-JAN-1999; 99GB-0001710.
 XX (PROL-) PROLIFIX LTD.
 XX Mueller R, Kontermann RE, Montigiani S;
 XX WPI; 2000-532806/48.
 XX Peptides binding to the DNA binding domain of transcription factor E2F
 PT and inhibiting cell cycle progression, useful for the treatment of
 PT cancer
 XX Claim 4; Page 9; 42pp; English.
 XX Peptides which bind to the DNA binding domain of transcription
 CC factor E2F and inhibit cell cycle progression may be useful as
 CC research agents to investigate the interaction between E2F and DP-1,
 CC or the activation of transcription by E2F-1/DP-1 heterodimers. They
 CC may also be used for inducing apoptosis and/or cell cycle arrest in
 CC a cell, particularly for treatment of cancer or other proliferative
 CC disorders such as psoriasis and restenosis.
 XX
 XX Sequence 6 AA;
 SQ
 Query Match 80.6%; Score 25; DB 21; Length 6;
 Best Local Similarity 83.3%; Pred. NO. 9.3e+05;
 Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1 WXXWXP 6
 Db 1 WXXWHF 6
 RESULT 27
 ABR44865
 ID ABR44865 standard; Peptide; 6 AA.
 XX ABR44865;
 XX 10-JUN-2003 (first entry)
 XX Staphylococcus aureus CHIPS-related peptide #55.
 XX CHIPS; Chemotaxis Inhibitory Protein; C5a-receptor; C5aR;
 KW formylated peptide receptor; PPR; neutrophil; monocyte; endothelial cell;
 KW inflammation; cardiovascular disease; central nervous system disease;
 KW gastrointestinal disease; skin disease; genitourinary disease;
 KW joint disease; respiratory disease; HIV infection; antiinflammatory;
 KW cardiant; cerebroprotective; neuroprotective; nontropic; dermatological;

KW gynecological; immunosuppressive; anti-HIV.
 XX Staphylococcus aureus.
 OS Synthetic.
 XX WO2003006048-A1.
 XX 23-JAN-2003.
 XX 11-JUL-2001; 2001WO-EP08004.
 XX 11-JUL-2001; 2001WO-EP08004.
 XX (JARI-) JARI PHARM BV.
 XX Van Kessel CPM, Gosselaar-de Haas CJC, Kruijtz JAW;
 PI Van Strijp JAG;
 XX WPI; 2003-247783/25.
 XX Combination of peptides derived from chemotaxis inhibiting protein from
 PT Staphylococcus aureus (CHIPS) having CHIPS activity, useful in
 PT prophylaxis and treatment of inflammation, cardiovascular, skin and
 PT kidney diseases
 XX Disclosure; Page 10; 89pp; English.
 XX The present invention relates to peptides (ABR44811-ABR47162 and
 CC ABR47164-ABR47385) derived from the Chemotaxis Inhibitory Protein (CHIPS)
 CC from Staphylococcus aureus. The peptide fragments are useful in the
 CC prophylaxis or treatment of diseases or disorders involving the
 CC C5a-receptor (C5aR) and/or formylated peptide receptor (FPR) or
 CC neutrophils, monocytes and endothelial cells or involving acute or
 CC chronic inflammation reactions. The diseases or disorders include
 CC cardiovascular diseases, disease of the central nervous system,
 CC gastrointestinal diseases, skin diseases, genitourinary diseases, joint
 CC diseases, respiratory diseases and HIV infection.
 XX
 XX Sequence 6 AA;
 SQ
 Query Match 80.6%; Score 25; DB 24; Length 6;
 Best Local Similarity 50.0%; Pred. NO. 9.3e+05;
 Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 QY 1 WXXWXP 6
 Db 1 WSPWPF 6
 RESULT 28
 ABR44866
 ID ABR44866 standard; Peptide; 6 AA.
 XX ABR44866;
 XX 10-JUN-2003 (first entry)
 XX Staphylococcus aureus CHIPS-related peptide #56.
 XX CHIPS; Chemotaxis Inhibitory Protein; C5a-receptor; C5aR;
 KW formylated peptide receptor; PPR; neutrophil; monocyte; endothelial cell;
 KW inflammation; cardiovascular disease; central nervous system disease;
 KW gastrointestinal disease; skin disease; genitourinary disease;
 KW joint disease; respiratory disease; HIV infection; antiinflammatory;
 KW cardiant; cerebroprotective; neuroprotective; nontropic; dermatological;
 KW gynecological; immunosuppressive; anti-HIV.
 XX Staphylococcus aureus.
 OS Synthetic.
 XX WO2003006048-A1.
 XX 23-JAN-2003.

XX Disclosure; Page 12; 89pp; English.

XX The present invention relates to peptides (ABR44811-ABR47162 and

CC ABR47164-ABR47385) derived from the Chemotaxis Inhibitory Protein (CHIPS)

CC from Staphylococcus aureus. The peptide fragments are useful in the

CC prophylaxis or treatment of diseases or disorders involving the

CC C5a-receptor (C5aR) and/or formylated peptide receptor (FPR) or

CC neutrophils, monocytes and endothelial cells or involving acute or

CC chronic inflammation reactions. The diseases or disorders include

CC cardiovascular diseases, disease of the central nervous system,

CC gastrointestinal diseases, skin diseases, genitourinary diseases, joint

CC diseases, respiratory diseases and HIV infection.

XX SQ Sequence 6 AA;

Query Match 80.6%; Score 25; DB 24; Length 6;

Best Local Similarity 50.0%; Pred. No. 9.3e+05;

Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 WXXWKF 6

Db 1 WIFWFF 6

RESULT 31

ABR45367

ID ABR45367 standard; Peptide; 6 AA.

AC ABR45367;

XX 10-JUN-2003 (first entry)

DE Staphylococcus aureus CHIPS-related peptide #557.

XX CHIPS; Chemotaxis Inhibitory Protein; C5a-receptor; C5aR;

KW formylated peptide receptor; FPR; neutrophil; monocyte; endothelial cell;

KW inflammation; cardiovascular disease; central nervous system disease;

KW gastrointestinal disease; skin disease; genitourinary disease;

KW joint disease; respiratory disease; HIV infection; antiinflammatory;

KW cardiant; cerebroprotective; neuroprotective; nootropic; dermatological;

KW gynecological; immunosuppressive; anti-HIV.

XX Staphylococcus aureus.

OS Synthetic.

XX WO2003006048-A1.

XX 23-JAN-2003.

XX 11-JUL-2001; 2001WO-EP08004.

XX 11-JUL-2001; 2001WO-EP08004.

XX (JARI-) JARI PHARM BV.

XX Van Kessel CPM, Gosselaar-de Haas CJC, Kruijtzer JAW;

PI Van Strijp JAG;

XX WPI; 2003-247783/25.

XX Combination of peptides derived from chemotaxis inhibiting protein from

PT Staphylococcus aureus (CHIPS) having CHIPS activity, useful in

PT prophylaxis and treatment of inflammation, cardiovascular, skin and

PT kidney diseases -

XX Disclosure; Page 12; 89pp; English.

XX The present invention relates to peptides (ABR44811-ABR47162 and

CC ABR47164-ABR47385) derived from the Chemotaxis Inhibitory Protein (CHIPS)

CC from Staphylococcus aureus. The peptide fragments are useful in the

CC prophylaxis or treatment of diseases or disorders involving the

CC C5a-receptor (C5aR) and/or formylated peptide receptor (FPR) or

CC neutrophils, monocytes and endothelial cells or involving acute or

CC chronic inflammation reactions. The diseases or disorders include

CC cardiovascular diseases, disease of the central nervous system,

CC gastrointestinal diseases, skin diseases, genitourinary diseases, joint

CC diseases, respiratory diseases and HIV infection.

XX SQ Sequence 6 AA;

Query Match 80.6%; Score 25; DB 24; Length 6;

Best Local Similarity 50.0%; Pred. No. 9.3e+05;

Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 WXXWKF 6

Db 1 WIFWFF 6

RESULT 32

ABR45368

ID ABR45368 standard; Peptide; 6 AA.

AC ABR45368;

XX 10-JUN-2003 (first entry)

DE Staphylococcus aureus CHIPS-related peptide #558.

XX CHIPS; Chemotaxis Inhibitory Protein; C5a-receptor; C5aR;

KW formylated peptide receptor; FPR; neutrophil; monocyte; endothelial cell;

KW inflammation; cardiovascular disease; central nervous system disease;

KW gastrointestinal disease; skin disease; genitourinary disease;

KW joint disease; respiratory disease; HIV infection; antiinflammatory;

KW cardiant; cerebroprotective; neuroprotective; nootropic; dermatological;

KW gynecological; immunosuppressive; anti-HIV.

XX Staphylococcus aureus.

OS Synthetic.

XX WO2003006048-A1.

XX 23-JAN-2003.

XX 11-JUL-2001; 2001WO-EP08004.

XX 11-JUL-2001; 2001WO-EP08004.

XX (JARI-) JARI PHARM BV.

XX Van Kessel CPM, Gosselaar-de Haas CJC, Kruijtzer JAW;

PI Van Strijp JAG;

XX WPI; 2003-247783/25.

XX Combination of peptides derived from chemotaxis inhibiting protein from

PT Staphylococcus aureus (CHIPS) having CHIPS activity, useful in

PT prophylaxis and treatment of inflammation, cardiovascular, skin and

PT kidney diseases -

XX Disclosure; Page 12; 89pp; English.

XX The present invention relates to peptides (ABR44811-ABR47162 and

CC ABR47164-ABR47385) derived from the Chemotaxis Inhibitory Protein (CHIPS)

CC from Staphylococcus aureus. The peptide fragments are useful in the

CC prophylaxis or treatment of diseases or disorders involving the

CC C5a-receptor (C5aR) and/or formylated peptide receptor (FPR) or

CC neutrophils, monocytes and endothelial cells or involving acute or

CC chronic inflammation reactions. The diseases or disorders include

CC cardiovascular diseases, disease of the central nervous system,

CC gastrointestinal diseases, skin diseases, genitourinary diseases, joint

CC diseases, respiratory diseases and HIV infection.

XX SQ Sequence 6 AA;

CC neutrophils, monocytes and endothelial cells or involving acute or

CC chronic inflammation reactions. The diseases or disorders include

CC cardiovascular diseases, disease of the central nervous system,

CC gastrointestinal diseases, skin diseases, genitourinary diseases, joint

CC diseases, respiratory diseases and HIV infection.

XX SQ Sequence 6 AA;

Query Match 80.6%; Score 25; DB 24; Length 6;

Best Local Similarity 50.0%; Pred. No. 9.3e+05;

Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 WXXWKF 6

Db 1 WIFWFF 6

RESULT 32

ABR45368

ID ABR45368 standard; Peptide; 6 AA.

AC ABR45368;

XX 10-JUN-2003 (first entry)

DE Staphylococcus aureus CHIPS-related peptide #558.

XX CHIPS; Chemotaxis Inhibitory Protein; C5a-receptor; C5aR;

KW formylated peptide receptor; FPR; neutrophil; monocyte; endothelial cell;

KW inflammation; cardiovascular disease; central nervous system disease;

KW gastrointestinal disease; skin disease; genitourinary disease;

KW joint disease; respiratory disease; HIV infection; antiinflammatory;

KW cardiant; cerebroprotective; neuroprotective; nootropic; dermatological;

KW gynecological; immunosuppressive; anti-HIV.

XX Staphylococcus aureus.

OS Synthetic.

XX WO2003006048-A1.

XX 23-JAN-2003.

XX 11-JUL-2001; 2001WO-EP08004.

XX 11-JUL-2001; 2001WO-EP08004.

XX (JARI-) JARI PHARM BV.

XX Van Kessel CPM, Gosselaar-de Haas CJC, Kruijtzer JAW;

PI Van Strijp JAG;

XX WPI; 2003-247783/25.

XX Combination of peptides derived from chemotaxis inhibiting protein from

PT Staphylococcus aureus (CHIPS) having CHIPS activity, useful in

PT prophylaxis and treatment of inflammation, cardiovascular, skin and

PT kidney diseases -

XX Disclosure; Page 12; 89pp; English.

XX The present invention relates to peptides (ABR44811-ABR47162 and

CC ABR47164-ABR47385) derived from the Chemotaxis Inhibitory Protein (CHIPS)

CC from Staphylococcus aureus. The peptide fragments are useful in the

CC prophylaxis or treatment of diseases or disorders involving the

CC C5a-receptor (C5aR) and/or formylated peptide receptor (FPR) or

CC neutrophils, monocytes and endothelial cells or involving acute or

CC chronic inflammation reactions. The diseases or disorders include

CC cardiovascular diseases, disease of the central nervous system,

CC gastrointestinal diseases, skin diseases, genitourinary diseases, joint

CC diseases, respiratory diseases and HIV infection.

XX SQ Sequence 6 AA;

Query Match 80.6%; Score 25; DB 24; Length 6;
 Best Local Similarity 50.0%; Pred. No. 9.3e+05;
 Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 WXXWXF 6
 | | | |
 Db 1 WIFWLF 6

RESULT 33

ABR45423
 ID ABR45423 standard; Peptide; 6 AA.

XX AC ABR45423;
 XX DT 10-JUN-2003 (first entry)
 XX DE Staphylococcus aureus CHIPS-related peptide #613.
 XX KW CHIPS; Chemotaxis Inhibitory Protein; C5a-receptor; C5aR;
 KW formylated peptide receptor; FPR; neutrophil; monocyte; endothelial cell;
 KW inflammation; cardiovascular disease; central nervous system disease;
 KW gastrointestinal disease; skin disease; genitourinary disease;
 KW joint disease; respiratory disease; HIV infection; antiinflammatory;
 KW cardiant; cerebroprotective; neuroprotective; neutropic; dermatological;
 KW gynecological; immunosuppressive; anti-HIV.

XX OS Staphylococcus aureus.
 XX OS Synthetic.

XX PN WO2003006048-A1.

XX PD 23-JAN-2003.

XX PF 11-JUL-2001; 2001WO-EP08004.

XX PR 11-JUL-2001; 2001WO-EP08004.

XX PA (JARI-) JARI PHARM BV.

XX PI Van Kessel CPM, Gosselaar-de Haas CJC, Kruijtzer JAW;
 PI Van Strijp JAG;

XX PI Van Strijp JAG;

XX PS WPI; 2003-247783/25.

XX CC Combination of peptides derived from chemotaxis inhibiting protein from
 PT Staphylococcus aureus (CHIPS) having CHIPS activity, useful in
 PT prophylaxis and treatment of inflammation, cardiovascular, skin and
 PT kidney diseases -

XX PS Disclosure; Page 12; 89pp; English.

XX CC The present invention relates to peptides (ABR4811-ABR47162 and
 CC ABR47164-ABR47385) derived from the Chemotaxis Inhibitory Protein (CHIPS)
 CC from Staphylococcus aureus. The peptide fragments are useful in the
 CC prophylaxis or treatment of diseases or disorders involving the
 CC C5a-receptor (C5aR) and/or formylated peptide receptor (FPR) or
 CC neutrophils, monocytes and endothelial cells or involving acute or
 CC chronic inflammation reactions. The diseases or disorders include
 CC cardiovascular diseases, disease of the central nervous system,
 CC gastrointestinal diseases, skin diseases, genitourinary diseases, joint
 CC diseases, respiratory diseases and HIV infection.

XX SQ Sequence 6 AA;

Query Match 80.6%; Score 25; DB 24; Length 6;
 Best Local Similarity 50.0%; Pred. No. 9.3e+05;
 Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 WXXWXF 6
 | | | |
 Db 1 WFFWLF 6

RESULT 34

ABR45424
 ID ABR45424 standard; Peptide; 6 AA.

XX AC ABR45424;

XX DT 10-JUN-2003 (first entry)

XX DE Staphylococcus aureus CHIPS-related peptide #614.

XX KW CHIPS; Chemotaxis Inhibitory Protein; C5a-receptor; C5aR;
 KW formylated peptide receptor; FPR; neutrophil; monocyte; endothelial cell;
 KW inflammation; cardiovascular disease; central nervous system disease;
 KW gastrointestinal disease; skin disease; genitourinary disease;
 KW joint disease; respiratory disease; HIV infection; antiinflammatory;
 KW cardiant; cerebroprotective; neuroprotective; neutropic; dermatological;
 KW gynecological; immunosuppressive; anti-HIV.

XX OS Staphylococcus aureus.
 XX OS Synthetic.

XX PN WO2003006048-A1.

XX PD 23-JAN-2003.

XX PF 11-JUL-2001; 2001WO-EP08004.

XX PR 11-JUL-2001; 2001WO-EP08004.

XX PA (JARI-) JARI PHARM BV.

XX PI Van Kessel CPM, Gosselaar-de Haas CJC, Kruijtzer JAW;
 PI Van Strijp JAG;

XX PI Van Strijp JAG;
 XX PS WPI; 2003-247783/25.

XX CC Combination of peptides derived from chemotaxis inhibiting protein from
 PT Staphylococcus aureus (CHIPS) having CHIPS activity, useful in
 PT prophylaxis and treatment of inflammation, cardiovascular, skin and
 PT kidney diseases -

XX PS Disclosure; Page 12; 89pp; English.

XX CC The present invention relates to peptides (ABR44811-ABR47162 and
 CC ABR47164-ABR47385) derived from the Chemotaxis Inhibitory Protein (CHIPS)
 CC from Staphylococcus aureus. The peptide fragments are useful in the
 CC prophylaxis or treatment of diseases or disorders involving the
 CC C5a-receptor (C5aR) and/or formylated peptide receptor (FPR) or
 CC neutrophils, monocytes and endothelial cells or involving acute or
 CC chronic inflammation reactions. The diseases or disorders include
 CC cardiovascular diseases, disease of the central nervous system,
 CC gastrointestinal diseases, skin diseases, genitourinary diseases, joint
 CC diseases, respiratory diseases and HIV infection.

XX SQ Sequence 6 AA;

Query Match 80.6%; Score 25; DB 24; Length 6;
 Best Local Similarity 50.0%; Pred. No. 9.3e+05;
 Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 WXXWXF 6
 | | | |
 Db 1 WIFWLF 6

RESULT 35

ABR45479
 ID ABR45479 standard; Peptide; 6 AA.

XX AC ABR45479;

XX DT 10-JUN-2003 (first entry)

XX Staphylococcus aureus CHIPS-related peptide #669.
DE
XX
XX
KW CHIPS; Chemotaxis Inhibitory Protein; C5a-receptor; C5aR;
KW formylated peptide receptor; FPR; neutrophil; monocyte; endothelial cell;
KW inflammation; cardiovascular disease; central nervous system disease;
KW gastrointestinal disease; skin disease; genitourinary disease;
KW joint disease; respiratory disease; HIV infection; antiinflammatory;
KW cardiant; cerebroprotective; neuroprotective; nootropic; dermatological;
KW gynecological; immunosuppressive; anti-HIV.
XX
XX Staphylococcus aureus.
OS Synthetic.
XX
XX WO2003006048-A1.
FN
XX
XX 23-JAN-2003.
PD
XX
XX 11-JUL-2001; 2001WO-EP08004.
PF
XX
XX 11-JUL-2001; 2001WO-EP08004.
PR
XX
XX 11-JUL-2001; 2001WO-EP08004.
PR
XX
XX (JARI-) JARI PHARM BV.
PA
XX
PI Van Kessel CPM, Gosselaar-de Haas CJC, Kruijtzer JAW;
PI Van Strijp JAG;
PI
XX
XX WPI; 2003-247783/25.
DR
XX
XX Combination of peptides derived from chemotaxis inhibiting protein from
PT Staphylococcus aureus (CHIPS) having CHIPS activity, useful in
PT prophylaxis and treatment of inflammation, cardiovascular, skin and
PT kidney diseases -
XX
XX Disclosure; Page 13; 89pp; English.
PS
XX The present invention relates to peptides (ABR44811-ABR47162 and
CC ABR47164-ABR47385) derived from the Chemotaxis Inhibitory Protein (CHIPS)
CC from Staphylococcus aureus. The peptide fragments are useful in the
CC prophylaxis or treatment of diseases or disorders involving the
CC C5a-receptor (C5aR) and/or formylated peptide receptor (FPR) or
CC neutrophils, monocytes and endothelial cells or involving acute or
CC chronic inflammation reactions. The diseases or disorders include
CC cardiovascular diseases, disease of the central nervous system,
CC gastrointestinal diseases, skin diseases, genitourinary diseases, joint
CC diseases, respiratory diseases and HIV infection.
XX
XX Sequence 6 AA;
SQ
Query Match 80.6%; Score 25; DB 24; Length 6;
Best Local Similarity 50.0%; Pred. No. 9.3e+05;
Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 1 WXXWXF 6
DB 1 WFFWVF 6
RESULT 36
ABR45480
ID ABR45480 standard; Peptide; 6 AA.
AC
XX ABR45480;
XX
XX 10-JUN-2003 (first entry)
DT
XX Staphylococcus aureus CHIPS-related peptide #670.
DE
XX CHIPS; Chemotaxis Inhibitory Protein; C5a-receptor; C5aR;
KW formylated peptide receptor; FPR; neutrophil; monocyte; endothelial cell;
KW inflammation; cardiovascular disease; central nervous system disease;
KW gastrointestinal disease; skin disease; genitourinary disease;
KW joint disease; respiratory disease; HIV infection; antiinflammatory;

KW cardiant; cerebroprotective; neuroprotective; nootropic; dermatological;
KW gynecological; immunosuppressive; anti-HIV.
XX
XX Staphylococcus aureus.
OS Synthetic.
XX
XX WO2003006048-A1.
FN
XX
XX 23-JAN-2003.
PD
XX
XX 11-JUL-2001; 2001WO-EP08004.
PF
XX
XX 11-JUL-2001; 2001WO-EP08004.
PR
XX
XX (JARI-) JARI PHARM BV.
PA
XX
PI Van Kessel CPM, Gosselaar-de Haas CJC, Kruijtzer JAW;
PI Van Strijp JAG;
PI
XX
XX WPI; 2003-247783/25.
DR
XX
XX Combination of peptides derived from chemotaxis inhibiting protein from
PT Staphylococcus aureus (CHIPS) having CHIPS activity, useful in
PT prophylaxis and treatment of inflammation, cardiovascular, skin and
PT kidney diseases -
XX
XX Disclosure; Page 13; 89pp; English.
PS
XX The present invention relates to peptides (ABR44811-ABR47162 and
CC ABR47164-ABR47385) derived from the Chemotaxis Inhibitory Protein (CHIPS)
CC from Staphylococcus aureus. The peptide fragments are useful in the
CC prophylaxis or treatment of diseases or disorders involving the
CC C5a-receptor (C5aR) and/or formylated peptide receptor (FPR) or
CC neutrophils, monocytes and endothelial cells or involving acute or
CC chronic inflammation reactions. The diseases or disorders include
CC cardiovascular diseases, disease of the central nervous system,
CC gastrointestinal diseases, skin diseases, genitourinary diseases, joint
CC diseases, respiratory diseases and HIV infection.
XX
XX Sequence 6 AA;
SQ
Query Match 80.6%; Score 25; DB 24; Length 6;
Best Local Similarity 50.0%; Pred. No. 9.3e+05;
Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 1 WXXWXF 6
DB 1 WFFWVF 6
RESULT 37
ABR45537
ID ABR45537 standard; Peptide; 6 AA.
AC
XX ABR45537;
XX
XX 10-JUN-2003 (first entry)
DT
XX Staphylococcus aureus CHIPS-related peptide #727.
DE
XX CHIPS; Chemotaxis Inhibitory Protein; C5a-receptor; C5aR;
KW formylated peptide receptor; FPR; neutrophil; monocyte; endothelial cell;
KW inflammation; cardiovascular disease; central nervous system disease;
KW gastrointestinal disease; skin disease; genitourinary disease;
KW joint disease; respiratory disease; HIV infection; antiinflammatory;
KW cardiant; cerebroprotective; neuroprotective; nootropic; dermatological;
KW gynecological; immunosuppressive; anti-HIV.
XX
XX Staphylococcus aureus.
OS Synthetic.
XX
XX WO2003006048-A1.
FN
XX

PD 23-JAN-2003.

XX 11-JUL-2001; 2001WO-EP08004.

XX 11-JUL-2001; 2001WO-EP08004.

XX (JARI-) JARI PHARM BV.

XX Van Kessel CPM, Gosselaar-de Haas CJC, Kruijtzer JAW;

PI Van Strijp JAG;

XX WPI; 2003-247783/25.

DR Combination of peptides derived from chemotaxis inhibiting protein from
XX Staphylococcus aureus (CHIPS) having CHIPS activity, useful in
PT prophylaxis and treatment of inflammation, cardiovascular, skin and
PT kidney diseases -

XX Disclosure; Page 13; 89pp; English.

XX The present invention relates to peptides (ABR44811-ABR47162 and
CC ABR47164-ABR47385) derived from the Chemotaxis Inhibitory Protein (CHIPS)
CC from Staphylococcus aureus. The peptide fragments are useful in the
CC prophylaxis or treatment of diseases or disorders involving the
CC C5a-receptor (C5aR) and/or formylated peptide receptor (FPR) or
CC neutrophils, monocytes and endothelial cells or involving acute or
CC chronic inflammation reactions. The diseases or disorders include
CC cardiovascular diseases, disease of the central nervous system,
CC gastrointestinal diseases, skin diseases, genitourinary diseases, joint
CC diseases, respiratory diseases and HIV infection.

XX Sequence 6 AA;

Query Match 80.6%; Score 25; DB 24; Length 6;

Best Local Similarity 50.0%; Pred. No. 9.3e+05; Indels 0; Gaps 0;

Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 WXXWXF 6

Db 1 WFWWF 6

RESULT 38

ABR45538

ID ABR45538 standard; Peptide; 6 AA.

XX ABR45538;

XX 10-JUN-2003 (first entry)

XX Staphylococcus aureus CHIPS-related peptide #728.

XX CHIPS; Chemotaxis Inhibitory Protein; C5a-receptor; C5aR;
KW formylated peptide receptor; FPR; neutrophil; monocyte; endothelial cell;
KW inflammation; cardiovascular disease; central nervous system disease;
KW gastrointestinal disease; skin disease; genitourinary disease;
KW joint disease; respiratory disease; HIV infection; antiinflammatory;
KW cardiant; cerebroprotective; neuroprotective; nontropic; dermatological;
KW gynecological; immunosuppressive; anti-HIV.

XX Staphylococcus aureus.

OS Synthetic.

XX WO2003006048-A1.

XX 23-JAN-2003.

XX 11-JUL-2001; 2001WO-EP08004.

XX 11-JUL-2001; 2001WO-EP08004.

XX (JARI-) JARI PHARM BV.

XX

PI Van Kessel CPM, Gosselaar-de Haas CJC, Kruijtzer JAW;

XX Van Strijp JAG;

XX WPI; 2003-247783/25.

XX Combination of peptides derived from chemotaxis inhibiting protein from
PT Staphylococcus aureus (CHIPS) having CHIPS activity, useful in
PT prophylaxis and treatment of inflammation, cardiovascular, skin and
PT kidney diseases -

XX Disclosure; Page 13; 89pp; English.

XX The present invention relates to peptides (ABR44811-ABR47162 and
CC ABR47164-ABR47385) derived from the Chemotaxis Inhibitory Protein (CHIPS)
CC from Staphylococcus aureus. The peptide fragments are useful in the
CC prophylaxis or treatment of diseases or disorders involving the
CC C5a-receptor (C5aR) and/or formylated peptide receptor (FPR) or
CC neutrophils, monocytes and endothelial cells or involving acute or
CC chronic inflammation reactions. The diseases or disorders include
CC cardiovascular diseases, disease of the central nervous system,
CC gastrointestinal diseases, skin diseases, genitourinary diseases, joint
CC diseases, respiratory diseases and HIV infection.

XX Sequence 6 AA;

Query Match 80.6%; Score 25; DB 24; Length 6;

Best Local Similarity 50.0%; Pred. No. 9.3e+05; Indels 0; Gaps 0;

Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 WXXWXF 6

Db 1 WFWWF 6

RESULT 39

ABR45591

ID ABR45591 standard; Peptide; 6 AA.

XX ABR45591;

XX 10-JUN-2003 (first entry)

XX Staphylococcus aureus CHIPS-related peptide #781.

XX CHIPS; Chemotaxis Inhibitory Protein; C5a-receptor; C5aR;
KW formylated peptide receptor; FPR; neutrophil; monocyte; endothelial cell;
KW inflammation; cardiovascular disease; central nervous system disease;
KW gastrointestinal disease; skin disease; genitourinary disease;
KW joint disease; respiratory disease; HIV infection; antiinflammatory;
KW cardiant; cerebroprotective; neuroprotective; nontropic; dermatological;
KW gynecological; immunosuppressive; anti-HIV.

XX Staphylococcus aureus.

OS Synthetic.

XX WO2003006048-A1.

XX 23-JAN-2003.

XX 11-JUL-2001; 2001WO-EP08004.

XX 11-JUL-2001; 2001WO-EP08004.

XX (JARI-) JARI PHARM BV.

XX Van Kessel CPM, Gosselaar-de Haas CJC, Kruijtzer JAW;

XX Van Strijp JAG;

XX WPI; 2003-247783/25.

XX Combination of peptides derived from chemotaxis inhibiting protein from
PT Staphylococcus aureus (CHIPS) having CHIPS activity, useful in
PT prophylaxis and treatment of inflammation, cardiovascular, skin and

PT kidney diseases -
 PS Disclosure; Page 13; 89pp; English.
 CC The present invention relates to peptides (ABR44811-ABR47162 and ABR47164-ABR47385) derived from the Chemotaxis Inhibitory Protein (CHIPS) from *Staphylococcus aureus*. The peptide fragments are useful in the prophylaxis or treatment of diseases or disorders involving the C5a-receptor (C5aR) and/or formylated peptide receptor (FPR) or neutrophils, monocytes and endothelial cells or involving acute or chronic inflammation reactions. The diseases or disorders include cardiovascular diseases, disease of the central nervous system, gastrointestinal diseases, skin diseases, genitourinary diseases, joint diseases, respiratory diseases and HIV infection.

XX Sequence 6 AA;
 Query Match 80.6%; Score 25; DB 24; Length 6;
 Best Local Similarity 50.0%; Pred. No. 9.3e+05;
 Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 WXXWXF 6
 | | | |
 Db 1 WFFWYF 6

RESULT 40
 ABR45592
 ID ABR45592 standard; Peptide; 6 AA.
 AC ABR45592;
 XX
 XX 10-JUN-2003 (first entry)
 DE *Staphylococcus aureus* CHIPS-related peptide #782.
 XX
 KW CHIPS; Chemotaxis Inhibitory Protein; C5a-receptor; C5aR; formylated peptide receptor; FPR; neutrophil; monocyte; endothelial cell; inflammation; cardiovascular disease; central nervous system disease; gastrointestinal disease; skin disease; genitourinary disease; joint disease; respiratory disease; HIV infection; antiinflammatory; cardiant; cerebroprotective; neuroprotective; nootropic; dermatological; gynecological; immunosuppressive; anti-HIV.
 OS *Staphylococcus aureus*.
 OS Synthetic.
 XX
 PN WO2003006048-A1.
 XX
 XX 23-JAN-2003.
 XX
 XX 11-JUL-2001; 2001WO-EP08004.
 PF
 XX
 PR 11-JUL-2001; 2001WO-EP08004.
 XX
 XX (JARI-) JARI PHARM BV.
 PA
 XX
 XX Van Kessel CPM, Gosselaar-de Haas CJC, Kruijtzer JAW;
 PI Van Strijp JAG;
 XX
 XX WPI; 2003-247783/25.
 DR
 XX
 XX Combination of peptides derived from chemotaxis inhibiting protein from *Staphylococcus aureus* (CHIPS) having CHIPS activity, useful in prophylaxis and treatment of inflammation, cardiovascular, skin and kidney diseases -
 PT
 XX
 XX Disclosure; Page 13; 89pp; English.
 PS
 XX
 CC The present invention relates to peptides (ABR44811-ABR47162 and ABR47164-ABR47385) derived from the Chemotaxis Inhibitory Protein (CHIPS) from *Staphylococcus aureus*. The peptide fragments are useful in the prophylaxis or treatment of diseases or disorders involving the

CC C5a-receptor (C5aR) and/or formylated peptide receptor (FPR) or neutrophils, monocytes and endothelial cells or involving acute or chronic inflammation reactions. The diseases or disorders include cardiovascular diseases, disease of the central nervous system, gastrointestinal diseases, skin diseases, genitourinary diseases, joint diseases, respiratory diseases and HIV infection.

XX Sequence 6 AA;
 Query Match 80.6%; Score 25; DB 24; Length 6;
 Best Local Similarity 50.0%; Pred. No. 9.3e+05;
 Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 WXXWXF 6
 | | | |
 Db 1 WFFWYF 6

RESULT 41
 AAM45777
 ID AAM45777 standard; Peptide; 7 AA.
 XX
 AC AAM45777;
 XX
 XX 25-OCT-2001 (first entry)
 DE
 XX
 DE H11 binding site consensus conforming peptide (CCP) #2048.
 XX
 KW Antigen-binding; tumour; diagnosis; stress protein-peptide complex; SPCC; immunogenically cross-reactive; cancer; immunogenic cancer cell; cytostatic; vaccine; tumour-specific immunogenic response inducer; astrocytoma; fibrosarcoma; myxosarcoma; liposarcoma; oligodendroglioma; ependymoma; medulloblastoma; primitive neural ectodermal tumour.
 KW
 XX
 OS *Homo sapiens*.
 OS Synthetic.
 XX
 XX CA2290722-A1.
 PN
 XX 08-JUN-2001.
 PD
 XX 08-DEC-1999; 99CA-2290722.
 PF
 XX 08-DEC-1999; 99CA-2290722.
 PR
 XX (NOVO-) NOVOPHARM BIOTECH INC.
 PA
 XX Kaplan HA, Maiti PK, Past DG, Herman W, Dan MD, Lewis KE;
 PI Entwistle JM, MacDonald GC;
 PI
 XX WPI; 2001-425937/46.
 DR
 XX
 XX Composition useful for treating and diagnosing cancer, comprises stress protein-peptide complexes associated with tumor; and isolated antigen-binding fragments of an antibody that binds specifically to the complex -
 PT
 XX
 XX Example 4; Page 108; 154pp; English.
 PS
 XX
 XX The present invention describes a composition (I) comprising stress protein-peptide complexes (SPCC) associated with tumours that is specifically immunogenically cross-reactive with cell surface-associated SPCCs specific to target cancer (TC). Also described is an isolated antigen-binding fragment of an antibody that binds specifically to SPCCs or a population of different SPCCs consisting of immunogenic cancer cell surface-associated SPCC of TC. (I) has cytostatic activity and can be used in vaccine production and as a tumour-specific immunogenic response inducer. (I) is useful for treating 71 types of cancers or tumours in a subject, such as astrocytoma, fibrosarcoma, myxosarcoma, liposarcoma, oligodendroglioma, ependymoma, medulloblastoma, and primitive neural ectodermal tumour (PNET). (I) is useful as cancer immunogen including vaccines. (I) is useful for diagnostic and palliative use, for detecting or imaging cancer cells, and to monitor the course of amelioration of

CC malignancy in an individual. AAM43707 to AAM47109 represent peptides
CC which are used in the exemplification of the present invention.

XX SQ Sequence 7 AA;

Query Match 80.6%; Score 25; DB 22; Length 7;

Best Local Similarity 50.0%; Pred. No. 9.3e+05;

Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 1 WXXWXP 6

DB 1 WRRWNF 6

RESULT 42

AAB01498
ID AAB01498 standard; peptide; 9 AA.

XX AC AAB01498;

XX DT 08-NOV-2000 (first entry)

XX PEptide which binds to transcription factor E2F-1 DNA binding domain.

XX DNA binding; transcription factor; E2F; E2F-1; cell cycle; DP-1;

XX activation; transcription; apoptosis; proliferative disorder;

XX psoriasis; restenosis.

XX OS Synthetic.

XX Key Location/Qualifiers

FT Misc-difference 2 /note= "Any amino acid"

FT Misc-difference 3 /note= "Any amino acid"

FT Misc-difference 5 /note= "Any amino acid"

FT Misc-difference 7 /note= "Any amino acid"

FT Misc-difference 8 /note= "Any amino acid"

XX WO200044771-A1.

XX PD 03-AUG-2000.

XX PF 26-JAN-2000; 2000WO-GB00227.

XX PR 26-JAN-1999; 99GB-0001710.

XX PA (PROL-) PROLIFIX LTD.

XX PI Mueller R, Kontermann RE, Montigiani S;

XX DR WPI; 2000-532806/48.

XX PT Peptides binding to the DNA binding domain of transcription factor E2F
PT and inhibiting cell cycle progression, useful for the treatment of
PT cancer

XX PS Claim 4; Page 9; 42pp; English.

XX CC Peptides which bind to the DNA binding domain of transcription

XX factor E2F and inhibit cell cycle progression may be useful as

XX research agents to investigate the interaction between E2F and DP-1,

XX or the activation of transcription by E2F-1/DP-1 heterodimers. They

XX may also be used for inducing apoptosis and/or cell cycle arrest in

XX a cell, particularly for treatment of cancer or other proliferative

XX disorders such as psoriasis and restenosis.

XX SQ Sequence 9 AA;

Query Match 80.6%; Score 25; DB 21; Length 9;

Best Local Similarity 100.0%; Pred. No. 9.3e+05;

Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 WXXWXP 6

DB 1 WXXWXP 6

RESULT 43

AAB20714

ID AAB20714 standard; peptide; 11 AA.

XX AC AAB20714;

XX DT 20-DEC-2000 (first entry)

XX PElymeric immunoglobulin receptor binding domain peptide SEQ ID NO:30.

XX Polymeric immunoglobulin receptor; pIgR; binding domain; diagnosis;

XX identification; infection; cancer; asthma; antiasthmatic; cytostatic;

XX antiinflammatory; antiinfectious; antidiarrhoeal; hepatotropic;

XX virucide; vasotropic; anti-human immunodeficiency virus; antibacterial;

XX mucosal epithelia; bronchitis; emphysema; cystic fibrosis; dysphagia;

XX bronchiectasis; bronchiolitis; pulmonary oedema; viral tracheobronchitis;

XX sleep apnea syndrome; infectious disease; neoplastic condition;

XX Loffler's syndrome; kyphoclosis; peptic ulcer; diarrhoeal disease;

XX ulcerative colitis; Crohn's disease; hepatitis; cirrhosis; haemorrhoid;

XX systemic vasculitis; acquired immunodeficiency syndrome; gonorrhea;

XX syphilis; chlamydia; antiulcer.

XX OS Homo sapiens.

XX WO200047611-A2.

XX PD 17-AUG-2000.

XX PF 11-FEB-2000; 2000WO-US03650.

XX PR 12-FEB-1999; 99US-0119932.

XX PA (OKLA-) OKLAHOMA MEDICAL RES FOUND.

XX (TEXA) UNIV TEXAS SYSTEM.

XX PA (DCIB-) DGI BIOTECHNOLOGIES.

XX PI Capra JD, White K, Hexham JM, Mandecki W;

XX DR WPI; 2000-549134/50.

XX Novel polypeptides containing pIgR-binding domains used for targeting
XX and transport to the mucosal epithelia, in the treatment of disorders
XX accessible to the mucosal epithelia, e.g. asthma -

XX PS Claim 12; Fig 2; 139pp; English.

XX The present invention describes a 10-50 residue peptide (I) comprising
XX a polymeric immunoglobulin receptor (pIgR)-binding domain. (I) can have
XX antiasthmatic, antiinflammatory, antiinfectious, cytostatic, antiulcer,
XX antidiarrhoeal, hepatotropic, virucide, vasotropic, anti-human
XX immunodeficiency virus and antibacterial activities. (I) can be used
XX for targeting and transport to the mucosal epithelium, for the
XX prevention or treatment of diseases, ailments or conditions that are
XX accessible to mucosal epithelia, including asthma, bronchitis, emphysema,
XX cystic fibrosis, bronchiectasis, bronchiolitis, infectious diseases, neoplastic
XX conditions, Loffler's syndrome, kyphoclosis, dysphagia, peptic ulcers,
XX diarrhoeal diseases, ulcerative colitis, Crohn's disease, hepatitis,
XX cirrhosis, haemorrhoids, systemic vasculitis, acquired immunodeficiency
XX syndrome, gonorrhea, syphilis and chlamydia. (I) can be attached to a
XX detectable label for use in diagnostics. The present sequence represents
XX a specifically claimed example of (I), derived from the human C-alpha-3
XX domain amino acid sequence.

XX SQ Sequence 11 AA;

Query Match 80.6%; Score 25; DB 21; Length 11;
Best Local Similarity 50.0%; Pred. No. 2.8e+02;
Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 WXXWKF 6
Db 3 WWSWLF 8.

RESULT 44
AAW38112
ID AAW38112 standard; Peptide; 13 AA.

XX AC AAW38112;
XX DT 23-APR-1998 (first entry)
XX DE Dystrophin WW domain binding peptide 5.

XX KW Peptide recognition unit; WW domain; cell signalling; growth regulation;
XX KW cytoskeleton organisation; targeted drug screening; modulator;
XX KW WW domain interaction; dystrophin.

XX OS Synthetic.
XX PN W09737223-A1.
XX PD 09-OCT-1997.

XX PF 03-APR-1997; 97WO-US05547.
XX PR 03-APR-1996; 96US-0630916.

XX PA (CYTO-) CYTOGEN CORP.
XX PA (UYN-) UNIV NORTH CAROLINA.

XX PI Fowlkes DM, Kay BK, Pirozzi G;
XX DR WPI; 1997-503234/46.

XX PT Identifying cell signalling and growth regulatory polypeptides by
XX PT reaction with multivalent recognition complex - polypeptides are
XX PT useful in targeted drug selection

XX PS Example 2; Page 78; 220pp; English.

XX CC Peptides AAW38108-13 function as recognition units of the dystrophin
XX CC WW domain. They were identified from a random peptide phage display
XX CC library using the dystrophin WW domain as a probe. The peptides were
XX CC used as probes themselves to screen a lambda-Exlox mouse 16 day embryo
XX CC cDNA expression library. In this way, cDNA clones expressing proteins,
XX CC containing WW domains, capable of binding to these peptides are
XX CC identified. The WW domain is a small functional domain found in a large
XX CC number of proteins from a variety of species including humans, nematodes
XX CC and yeast. Its name is derived from the observation that two tryptophan
XX CC residues, one in the amino terminal portion of the WW domain and one in
XX CC the carboxyl terminal portion, are conserved. Most proteins containing
XX CC WW domains have a function involving cell signalling and growth
XX CC regulation or the organisation of the cytoskeleton. Polypeptides
XX CC containing a WW domain are identified by treating a multivalent
XX CC recognition unit complex that has selective binding affinity for a WW
XX CC domain, with many polypeptides and identifying those with selective
XX CC affinity for the complex. Proteins containing WW domains are used for
XX CC targeted drug screening, i.e. to identify potential modulators of
XX CC specific WW domain interactions. The valency of the recognition unit is
XX CC important in determining specificity of interaction with WW domains. In
XX CC multivalent form specificity is relaxed, but not lost, so proteins
XX CC containing WW domains similar, but not identical, to the sequence of
XX CC the peptides' target WW can be detected, including new polypeptides.

XX SQ Sequence 13 AA;

Query Match 80.6%; Score 25; DB 18; Length 13;
Best Local Similarity 50.0%; Pred. No. 3.2e+02;
Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 WXXWKF 6
Db 5 WEEWEF 10

RESULT 45
AAE07760
ID AAE07760 standard; peptide; 14 AA.

XX AC AAE07760;
XX DT 06-NOV-2001 (first entry)
XX DE Human HLA-DP restricted T cell epitope #4 of NY ESO-1 protein.

XX KW Human; major histocompatibility complex; MHC; vaccine; metastasis;
XX KW class II restricted T cell epitope; MHC-II epitope; cancer antigen;
XX KW NY ESO-1 protein; CD4+ T lymphocyte; human leucocyte antigen; HLA;
XX KW tumour-specific humoral-mediated immunity; cancer; cytostatic;
XX KW immunotherapy.

XX OS Homo sapiens.
XX PN W0200155393-A2.
XX PD 02-AUG-2001.

XX PF 26-JAN-2001; 2001WO-US02765.
XX PR 28-JAN-2000; 2000US-0179004.
XX PR 29-SEP-2000; 2000US-0237107.

XX PA (USSH) US DEPT HEALTH & HUMAN SERVICES.
XX PI Wang R, Rosenberg SA, Zeng G;
XX DR WPI; 2001-496851/54.

XX PT New NY-ESO cancer peptide or MHC class II restricted T cell epitopes,
XX PT useful as immunogen and vaccine for inhibiting cancer in a mammal or as
XX PT protection from metastasis -
XX PS Claim 65; Page 82; 134pp; English.

XX CC The invention relates to the identification and isolation of major
XX CC histocompatibility (MHC) class II restricted T cell epitope (MHC-II
XX CC epitope) derived from the cancer antigen, NY ESO-1. The MHC-II epitopes
XX CC from NY ESO-1 are recognised by CD4+ T lymphocytes in an human leucocyte
XX CC antigen (HLA) class II restricted manner, in particular HLA-DR or HLA-DP
XX CC restricted. The products of the gene are promising candidates for
XX CC immunotherapeutic strategies for the prevention, treatment and diagnosis
XX CC of patients with cancer. The cancer epitopes are useful as immunogen and
XX CC vaccine to inhibit or to prevent cancer in a mammal by eliciting CD4+ T
XX CC lymphocytes resulting in protection of the recipient from development of
XX CC cancer and protection from metastasis, or by inhibiting the growth of
XX CC cells expressing the NY-ESO-1 gene product. The cancer peptides are also
XX CC useful as diagnostic agent to detect the presence of cancer, to enhance
XX CC the generation of antibody and/or CD8+ T cell responses against any
XX CC given target antigen and/or hapten and to induce tumour-specific
XX CC humoral-mediated immunity against cancer. The present sequence is human
XX CC HLA-DP restricted T cell epitope of NY ESO-1 protein.

XX SQ Sequence 14 AA;

Query Match 80.6%; Score 25; DB 22; Length 14;
Best Local Similarity 50.0%; Pred. No. 3.3e+02;
Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 WXXWKF 6

Db 3 WITWCF 8

Search completed: December 12, 2003, 10:29:03
Job time : 31.3 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: December 3, 2003, 11:48:05 ; Search time 26.3333 Seconds
(without alignments)
58.797 Million cell updates/sec

Title: US-09-912-414-11

Perfect score: 38

Sequence: 1 WXXWHF 6

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 830525 seqs, 258052604 residues

Total number of hits satisfying chosen parameters: 3526

Minimum DB seq length: 0

Maximum DB seq length: 15

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : SPTREMBL_23.*

- 1: sp_archaea.*
- 2: sp_bacteria.*
- 3: sp_fungi.*
- 4: sp_human.*
- 5: sp_invertebrate.*
- 6: sp_mammal.*
- 7: sp_mhc.*
- 8: sp_organelle.*
- 9: sp_phage.*
- 10: sp_plant.*
- 11: sp_rodent.*
- 12: sp_virus.*
- 13: sp_vertebrate.*
- 14: sp_unclassified.*
- 15: sp_virus.*
- 16: sp_bacteriap.*
- 17: sp_archaeap.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	22	57.9	8	13 P79940	P79940 xenopus lae
2	21	55.3	9	2 Q9R5M1	Q9R5M1 staphylococ
3	21	55.3	9	9 Q38366	Q38366 bacterioph
4	20	52.6	9	8 Q8SHF0	Q8SHF0 chamaeleo n
5	20	52.6	12	7 Q77919	Q77919 pseudotroph
6	20	52.6	13	4 Q16406	Q16406 homo sapien
7	20	52.6	15	2 Q53580	Q53580 rhodobacter
8	19	50.0	8	8 Q94VF6	Q94VF6 varanus job
9	19	50.0	10	13 Q3PRU9	Q3PRU9 sparus aura
10	19	50.0	14	8 Q9MT61	Q9MT61 allium cepa
11	19	50.0	14	8 Q9MRV4	Q9MRV4 allium porr
12	19	50.0	14	8 Q9MRV1	Q9MRV1 allium sati
13	19	50.0	14	8 Q9MRT8	Q9MRT8 aloe vera (
14	19	50.0	14	8 Q8HGT1	Q8HGT1 gadus morhu
15	17	44.7	10	8 Q94VD2	Q94VD2 varanus pan
16	17	44.7	13	10 Q8LPV3	Q8LPV3 deschampsia

17	44.7	14	6	Q9TQ21	Q9tq1 bos taurus
18	44.7	14	11	Q9R1G8	Q9r1g8 rattus norv
19	42.1	8	8	Q94VC1	Q94vc1 varanus nor
20	42.1	8	8	Q9TD02	Q9td02 terranatos
21	42.1	8	8	Q9TY2	Q9ty2 asterina pe
22	42.1	9	8	Q9T888	Q9t888 gecko gecko
23	42.1	10	2	Q47561	Q47561 escherichia
24	42.1	10	8	Q9T8K7	Q9t8k7 liolaemus m
25	42.1	10	8	Q9T8N1	Q9t8n1 liolaemus p
26	42.1	10	8	Q79903	Q79903 oplurus cuv
27	42.1	10	8	Q8W969	Q8w969 anolis orto
28	42.1	10	8	Q8WDH8	Q8wdh8 anolis mest
29	42.1	10	8	Q9T8T6	Q9t8t6 liolaemus m
30	42.1	10	8	Q9T8L3	Q9t8l3 liolaemus l
31	42.1	10	8	P92616	P92616 aspidosceli
32	42.1	10	8	Q9T8G8	Q9t8g8 liolaemus c
33	42.1	10	8	Q9S8K9	Q9s8k9 rana boylii
34	42.1	10	8	Q9TFU9	Q9tfu9 teratocinc
35	42.1	10	8	Q9T8X7	Q9t8x7 phymaturus
36	42.1	10	8	Q9S8L2	Q9s8l2 rana tempor
37	42.1	10	8	Q79885	Q79885 anolis pate
38	42.1	10	8	Q9T8Q5	Q9t8q5 liolaemus l
39	42.1	10	8	P92654	P92654 euprepis au
40	42.1	10	8	Q9T8L0	Q9t8l0 liolaemus b
41	42.1	10	8	Q9T8W8	Q9t8w8 liolaemus o
42	42.1	10	8	Q9T8R4	Q9t8r4 liolaemus p
43	42.1	10	8	Q9T8M8	Q9t8m8 liolaemus m
44	42.1	10	8	Q9T8S1	Q9t8s1 liolaemus l
45	42.1	10	8	Q9T8S4	Q9t8s4 liolaemus c

ALIGNMENTS

RESULT 1
ID P79940 PRELIMINARY; PRT; 8 AA.
AC P79940;
DT 01-MAY-1997 (TREMBlrel. 03, Created)
DT 01-MAY-1997 (TREMBlrel. 03, Last sequence update)
DT 01-DEC-2001 (TREMBlrel. 19, Last annotation update)
DE XMeisl-4 protein (Fragment).
OS Xenopus laevis (African clawed frog).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Mesobatrachia; Pipidea; Pipidae;
OC Xenopodinae; Xenopus.
OX NCBI_TaxID=8355;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=97202105; PubMed=9049632;
RA Steelman S., Moskow J.J., Muzynski K., North C., Druck T.,
RA Montgomery J.C., Huebner K., Daar I.O., Buchberg A.M.;
RT "Identification of a conserved family of Meisl-related homeobox genes."
RL Genome Res. 7:142-156(1997).
DR EMBL; U68389; AAB19199.1; -
DR TRANSPAC; T03410; -
FT NON TER 1 1
SQ SEQUENCE 8 AA; 1187 MW; 278951F37B11F40B CRC64;
Query Match 57.9%; Score 22; DB 13; Length 8;
Best Local Similarity 66.7%; Pred. No. 8.3e+05;
Matches 2; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 4 WHF 6
Db 5 WHY 7

RESULT 2
Q9R5M1 PRELIMINARY; PRT; 9 AA.
ID Q9R5M1
AC Q9R5M1;

DT 01-MAY-2000 (TrEMBLrel. 13, Created)
 DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
 DT 01-JUN-2002 (TrEMBLrel. 21, Last annotation update)
 DE 66 kDa cell surface adhesin for heparan sulfate (Fragment).
 OS Staphylococcus aureus.
 OS Bacteria; Firmicutes; Bacillales; Staphylococcus.
 OX NCBI_TaxID=1280;
 RN [1]
 RP SEQUENCE.
 RX MEDLINE=92176005; PubMed=1541563;
 RA Liang O.D., Ascencio F., Fransson L.A., Wadstrom T.;
 RT "Binding of heparan sulfate to Staphylococcus aureus";
 RL Infect. Immun. 60:899-906(1992).
 FT NON_TER 1
 FT NON_TER 9
 SQ SEQUENCE 9 AA; 990 MW; 2289DDD7337861B3 CRC64;

Query Match 55.3%; Score 21; DB 2; Length 9;
 Best Local Similarity 50.0%; Pred. No. 8.3e+05;
 Matches 2; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 WXXW 4
 DB 2 WTCW 5

RESULT 3

ID Q38366 PRELIMINARY; PRT; 9 AA.
 AC Q38366;
 DT 01-NOV-1996 (TrEMBLrel. 01, Created)
 DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
 DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
 DE E gene product (Fragment).
 OS Bacteriophage phi-X174.
 OC Viruses; ssDNA viruses; Microviridae; Microvirus.
 OX NCBI_TaxID=10847;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=88118956; PubMed=29631134;
 RA Buckley K.J., Hayashi M.;
 RT "Role of premature translational termination in the regulation of
 expression of the phiX174 lysis gene";
 RL J. Mol. Biol. 198:599-607(1987).
 DR EMBL; X07809; CAA30668.1; -.
 FT NON_TER 9
 FT NON_TER 9
 SQ SEQUENCE 9 AA; 1207 MW; C093B37731B36412 CRC64;

Query Match 55.3%; Score 21; DB 9; Length 9;
 Best Local Similarity 50.0%; Pred. No. 8.3e+05;
 Matches 2; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 WXXW 4
 DB 4 WTLW 7

RESULT 4

ID Q8SHF0 PRELIMINARY; PRT; 9 AA.
 AC Q8SHF0;
 DT 01-JUN-2002 (TrEMBLrel. 21, Created)
 DT 01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
 DT 01-JUN-2002 (TrEMBLrel. 21, Last annotation update)
 DE Cytochrome c oxidase subunit I (Fragment).
 GN COI.
 OS Chamaeleo namaquensis.
 OG Mitochondrion.
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Lepidosauria; Squamata; Iguania; Acrodonta; Chamaeleonidae; Chamaeleo.
 OX NCBI_TaxID=179917;
 RN [1]
 RP SEQUENCE FROM N.A.

RA Townsend T.M., Larson A.L.;
 RT "Molecular Phylogenetics and Mitochondrial Genomic Evolution in the
 RT Chamaeleonidae (Reptilia, Squamata).";
 RL Submitted (NOV-2001) to the EMBL/GenBank/DBJ databases.
 DR EMBL; AF448757; AAL90553.1; -.
 KW Mitochondrion.
 FT NON_TER 9
 FT NON_TER 9
 SQ SEQUENCE 9 AA; 1205 MW; 358CB72733640733 CRC64;

Query Match 52.6%; Score 20; DB 8; Length 9;
 Best Local Similarity 50.0%; Pred. No. 8.3e+05;
 Matches 2; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 WXXW 4
 DB 2 WLRW 5

RESULT 5

ID O77919 PRELIMINARY; PRT; 12 AA.
 AC O77919;
 DT 01-NOV-1998 (TrEMBLrel. 08, Created)
 DT 01-NOV-1998 (TrEMBLrel. 08, Last sequence update)
 DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
 DE MHC class II B locus 4 (Fragment).
 OS Pseudotropheus sp. 'Pseudotropheus tropheus complex'.
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
 OC Acanthomorpha; Acanthopterygii; Percomorpha; Perciformes; Labroidae;
 OC Cichlidae; Pseudotropheus.
 OX NCBI_TaxID=51796;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=98315113; PubMed=9649539;
 RA Malaga-Trillo E., Zaleska-Rutczynska Z., McAndrew B., Vincek V.,
 RA Figueroa F., Sultmann H., Klein J.;
 RT "Linkage relationships and haplotype polymorphism among cichlid mhc
 RT class II B loci";
 RL Genetics 149:1527-1537(1998).
 DR EMBL; AF050032; AAC41371.1; -.
 FT NON_TER 1
 FT NON_TER 12
 FT NON_TER 12
 SQ SEQUENCE 12 AA; 1529 MW; 6C2ABFACD5A5B734 CRC64;

Query Match 52.6%; Score 20; DB 7; Length 12;
 Best Local Similarity 50.0%; Pred. No. 2.3e+03;
 Matches 2; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 WXXW 4
 DB 1 WDFW 4

RESULT 6

ID Q16406 PRELIMINARY; PRT; 13 AA.
 AC Q16406;
 DT 01-NOV-1996 (TrEMBLrel. 01, Created)
 DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
 DT 01-MAY-1999 (TrEMBLrel. 10, Last annotation update)
 DE GHRH-R protein (Fragment).
 GN GHRH-R.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=96001284; PubMed=7559877;
 RA Hashimoto K., Koga M., Motomura T., Kasayama S., Kouhara H.,
 RA Ohnishi T., Arita N., Hayakawa T., Sato B., Kishimoto T.;
 RT "Identification of alternatively spliced messenger ribonucleic acid

RT encoding truncated growth hormone-releasing hormone receptor in human
 RL pituitary adenomas."
 RJ J. Clin. Endocrinol. Metab. 80:2933-2939(1995).
 DR EMBL: S79912; AAD14318.1; -.
 FT NON_TER 1
 SQ SEQUENCE 13 AA; 1612 MW; CE19D7D255D66362 CRC64;

Query Match 52.6%; Score 20; DB 4; Length 13;
 Best Local Similarity 50.0%; Pred. No. 2.5e+03;
 Matches 2; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 WXXW 4
 Db 7 WGYW 10

RESULT 7

ID Q53580 PRELIMINARY; PRT; 15 AA.

AC Q53580;
 DT 01-NOV-1996 (TRENBLrel. 01, Created)
 DT 01-NOV-1996 (TRENBLrel. 01, Last sequence update)
 DT 01-DEC-2001 (TRENBLrel. 19, Last annotation update)
 DE Light-harvesting complex I alpha polypeptide (Fragment).
 GN PUFA.
 OS Rhodobacter capsulatus (Rhodospseudomonas capsulata).
 OC Bacteria; Proteobacteria; Alphaproteobacteria; Rhodobacterales;
 OC Rhodobacteraceae; Rhodobacter.
 OX NCBI_TaxID=1061;
 RN [1]

RP SEQUENCE FROM N.A.
 RX MEDLINE=92234963; PubMed=1569029;
 RA Richter P., Brand M., Drews G.;
 RT "Characterization of LHI- and LHI+ Rhodobacter capsulatus pufa
 RT mutants."
 RJ J. Bacteriol. 174:3030-3041(1992).
 DR EMBL: S97552; AAC60406.1; -.
 FT NON_TER 15
 SQ SEQUENCE 15 AA; 2054 MW; 3561FE413591D31A CRC64;

Query Match 52.6%; Score 20; DB 2; Length 15;
 Best Local Similarity 50.0%; Pred. No. 2.8e+03;
 Matches 2; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 WXXW 4
 Db 8 WKIW 11

RESULT 8

ID Q94VF6 PRELIMINARY; PRT; 8 AA.

AC Q94VF6;
 DT 01-DEC-2001 (TRENBLrel. 19, Created)
 DT 01-DEC-2001 (TRENBLrel. 19, Last sequence update)
 DT 01-DEC-2001 (TRENBLrel. 19, Last annotation update)
 DE Cytochrome c oxidase subunit I (Fragment).
 GN COI.
 OS Varanus jobiensis.
 OG Mitochondrion.
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Lepidosauria; Squamata; Scieroglossa; Anguilliforma; Varanidae; Varanus.
 OX NCBI_TaxID=169843;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Ast J.C.;
 RT "Mitochondrial DNA evidence and evolution in Varanoidea (Squamata).";
 RL Cladistics 17:0-0(2001).
 DR EMBL: AF407507; AAL10075.1; -.
 FT NON_TER 8

SQ SEQUENCE 8 AA; 1144 MW; EFD729DB436411A6 CRC64;

Query Match 50.0%; Score 19; DB 8; Length 8;
 Best Local Similarity 66.7%; Pred. No. 8.3e+05;
 Matches 2; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 4 WHF 6
 Db 4 WYF 6

RESULT 9

ID Q9PRU9 PRELIMINARY; PRT; 10 AA.

AC Q9PRU9;
 DT 01-MAY-2000 (TRENBLrel. 13, Created)
 DT 01-MAY-2000 (TRENBLrel. 13, Last sequence update)
 DT 01-MAY-2000 (TRENBLrel. 13, Last annotation update)
 DE Gonadotropin-releasing hormone, SBGNRH-I.
 OS Sparus aurata (Gilthead sea bream).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
 OC Acanthomorpha; Acanthopterygii; Percomorpha; Perciformes; Percoidae;
 OC Sparidae; Sparus.
 OX NCBI_TaxID=8175;
 RN [1]

RP SEQUENCE.

RX MEDLINE=95083645; PubMed=7991588;
 RA Powell J.F., Zohar Y., Elizur A., Park M., Fischer W.H., Craig A.G.,
 Rivier J.E., Lovejoy D.A., Sherwood N.M.;
 RT "Three forms of gonadotropin-releasing hormone characterized from
 RT brains of one species."
 RJ Proc. Natl. Acad. Sci. U.S.A. 91:12081-12085(1994).
 DR EMBL: S97552; AAC60406.1; -.
 FT NON_TER 15
 SQ SEQUENCE 10 AA; 1132 MW; 81566865AB587735 CRC64;

Query Match 50.0%; Score 19; DB 13; Length 10;
 Best Local Similarity 100.0%; Pred. No. 2.8e+03;
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 WH 5
 Db 8 WH 9

RESULT 10

ID Q9MT61 PRELIMINARY; PRT; 14 AA.

AC Q9MT61;
 DT 01-OCT-2000 (TRENBLrel. 15, Created)
 DT 01-OCT-2000 (TRENBLrel. 15, Last sequence update)
 DT 01-OCT-2000 (TRENBLrel. 15, Last annotation update)
 DE PSI 9 kDa protein (Fragment).
 GN PSAC.
 OS Allium cepa (Onion).
 OG Chloroplast.
 OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
 OC Spermatophyta; Magnoliophyta; Liliopsida; Asparagales; Alliaceae;
 OC Allium.
 OX NCBI_TaxID=4679;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Leaf;
 RA Lopez-Serrano M., del Campo E.M., Sabater B., Martin M.;
 RT "Conservation of the start codon by editing in ndhD-encoded
 RT transcripts is not restricted to dicotyledonous plants."
 RL Submitted (JUN-2000) to the EMBL/GenBank/DBJ databases.
 DR EMBL: AJ278350; CAB96183.1; -.
 FT NON_TER 1
 SQ SEQUENCE 14 AA; 1744 MW; 8F14FD03E3B7D911 CRC64;

Query Match 50.0%; Score 19; DB 8; Length 14;
 Best Local Similarity 100.0%; Pred. No. 3.8e+03;
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 WH 5
||
Db 3 WH 4

RESULT 11

Q9MRV4 PRELIMINARY; PRT; 14 AA.
AC Q9MRV4;
DT 01-OCT-2000 (TReMBLrel. 15, Created)
DT 01-OCT-2000 (TReMBLrel. 15, Last sequence update)
DT 01-OCT-2000 (TReMBLrel. 15, Last annotation update)
DE PSI 9 kDa protein (Fragment).
GN PSAC.
OS Allium porrum (Leek).
OG Chloroplast.
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; Liliopsida; Asparagales; Alliaceae;
OC Allium.
OX NCBI_TaxID=4681;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Leaf;
RA Lopez-Serrano M., del Campo E.M., Sabater B., Martin M.;
RT "Conservation of the start codon by editing in nhhd-encoded
RT transcripts is not restricted to dicotyledonous plants.";
RL Submitted (JUN-2000) to the EMBL/GenBank/DBJ databases.
DR EMBL; AJ278352; CAB96185.1;
KW Chloroplast.
FT NON_TER
SQ SEQUENCE 14 AA; 1744 MW; 8F14FD03E3B7D911 CRC64;

Query Match 50.0%; Score 19; DB 8; Length 14;
Best Local Similarity 100.0%; Pred. No. 3.8e+03;
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 WH 5
||
Db 3 WH 4

RESULT 12

Q9MRV1 PRELIMINARY; PRT; 14 AA.
AC Q9MRV1;
DT 01-OCT-2000 (TReMBLrel. 15, Created)
DT 01-OCT-2000 (TReMBLrel. 15, Last sequence update)
DT 01-OCT-2000 (TReMBLrel. 15, Last annotation update)
DE PSI 9 kDa protein (Fragment).
GN PSAC.
OS Allium sativum (Garlic).
OG Chloroplast.
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; Liliopsida; Asparagales; Alliaceae;
OC Allium.
OX NCBI_TaxID=4682;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Leaf;
RA Lopez-Serrano M., del Campo E.M., Sabater B., Martin M.;
RT "Conservation of the start codon by editing in nhhd-encoded
RT transcripts is not restricted to dicotyledonous plants.";
RL Submitted (JUN-2000) to the EMBL/GenBank/DBJ databases.
DR EMBL; AJ278351; CAB96187.1;
KW Chloroplast.
FT NON_TER
SQ SEQUENCE 14 AA; 1744 MW; 8F14FD03E3B7D911 CRC64;

Query Match 50.0%; Score 19; DB 8; Length 14;
Best Local Similarity 100.0%; Pred. No. 3.8e+03;
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 WH 5
||

Db ||
3 WH 4

RESULT 13

Q9MRT8 PRELIMINARY; PRT; 14 AA.
AC Q9MRT8;
DT 01-OCT-2000 (TReMBLrel. 15, Created)
DT 01-OCT-2000 (TReMBLrel. 15, Last sequence update)
DT 01-DEC-2001 (TReMBLrel. 19, Last annotation update)
DE PSI 9 kDa protein (Fragment).
GN PSAC.
OS Aloe vera (Aloe) (Aloe barbadensis).
OG Chloroplast.
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; Liliopsida; Asparagales; Asphodelaceae;
OC Aloe.
OX NCBI_TaxID=34199;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Leaf;
RA Lopez-Serrano M., del Campo E.M., Sabater B., Martin M.;
RT "Conservation of the start codon by editing in nhhd-encoded
RT transcripts is not restricted to dicotyledonous plants.";
RL Submitted (JUN-2000) to the EMBL/GenBank/DBJ databases.
DR EMBL; AJ278353; CAB96192.1;
KW Chloroplast.
FT NON_TER
SQ SEQUENCE 14 AA; 1744 MW; 8F14FD03E3B7D911 CRC64;

Query Match 50.0%; Score 19; DB 8; Length 14;
Best Local Similarity 100.0%; Pred. No. 3.8e+03;
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 WH 5
||
Db 3 WH 4

RESULT 14

Q9HGT1 PRELIMINARY; PRT; 14 AA.
AC Q9HGT1;
DT 01-MAR-2003 (TReMBLrel. 23, Created)
DT 01-MAR-2003 (TReMBLrel. 23, Last sequence update)
DT 01-MAR-2003 (TReMBLrel. 23, Last annotation update)
DE ATPase 8 (Fragment).
OS Gadus morhua (Atlantic cod).
OG Mitochondrion.
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
OC Acanthomorpha; Farscanthopterygii; Gadiformes; Gadidae; Gadus.
OX NCBI_TaxID=8049;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=ATPRK3;
RA Taylor M.I., Fox C., Rico I., Rico C.;
RT "Species-specific TaqMan probes for simultaneous identification of
RT (Gadus morhua L.), haddock (Melanogrammus aeglefinus L.) and whiting
RT (Merlangius merlangus L.).";
RL Mol. Ecol. Notes 2:599-601(2002).
DR EMBL; AF526615; AAN85062.1;
KW Mitochondrion.
FT NON_TER
SQ SEQUENCE 14 AA; 1753 MW; D4AF852330085E6D CRC64;

Query Match 50.0%; Score 19; DB 8; Length 14;
Best Local Similarity 100.0%; Pred. No. 3.8e+03;
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 WH 5
||

Db 13 WH 14

```
RESULT 15
Q94VD2
ID Q94VD2 PRELIMINARY; PRT; 10 AA.
AC Q94VD2;
DT 01-DEC-2001 (TREMBLrel. 19, Created)
DT 01-DEC-2001 (TREMBLrel. 19, Last sequence update)
DT 01-DEC-2001 (TREMBLrel. 19, Last annotation update)
DE Cytochrome c oxidase subunit I (Fragment).
GN COI.
OS Varanus panoptes panoptes.
OG Mitochondrion.
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Lepidodactylia; Squamata; Scleroglossa; Anguilliformia; Varanidae; Varanus.
OX NCBI_TaxID=169849;
RN [1]
RP SEQUENCE FROM N.A.
RA Ast J.C.;
RT "Mitochondrial DNA evidence and evolution in Varanoidea (Squamata).";
RL Cladistics 17:0-0(2001).
DR EMBL: AF407516; AAL10102.1; -.
KW Mitochondrion.
FT NON TER 10
SQ SEQUENCE 10 AA; 1299 MW; 5DEE80D4136411A7 CRC64;

Query Match 44.7%; Score 17; DB 8; Length 10;
Best Local Similarity 66.7%; Pred. No. 6e+03;
Matches 2; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 WHF 6
Db -6 WRF 8
```

Search completed: December 3, 2003, 11:53:25
Job time : 27.3333 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: December 3, 2003, 11:44:20 ; Search time 33.6667 Seconds
(without alignments)
28.288 Million cell updates/sec

Title: US-09-912-414-11

Perfect score: 38

Sequence: 1 WXXWHF 6

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1107863 seqs, 158726573 residues

Total number of hits satisfying chosen parameters: 350435

Minimum DB seq length: 0

Maximum DB seq length: 15

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

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23: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA2002.DAT.*
24: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA2003.DAT.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	35	92.1	6	21	AA801505
2	35	92.1	6	21	AA801506
3	34	89.5	6	21	AA801492
4	34	89.5	6	21	AA801499
5	29	76.3	6	24	ABR45593
6	29	76.3	6	24	ABR45594
7	29	76.3	14	22	AAW00214
8	28	73.7	6	18	AAW28912
9	28	73.7	6	18	AAW93770

Peptide which bind
Peptide which bind
Peptide which bind
Peptide which bind
Staphylococcus aur
Staphylococcus aur
Human angiotensin
Opioid peptide. S
New peptide which

10	28	73.7	6	20	AAV23019	Opioid peptide whi
11	28	73.7	6	21	AA801509	Peptide which bind
12	28	73.7	6	24	ABR45591	Staphylococcus aur
13	28	73.7	6	24	ABR45592	Staphylococcus aur
14	28	73.7	7	20	AAV01258	US5851813 peptide
15	28	73.7	7	22	ABR49729	Peptide SEQ ID 40
16	28	73.7	8	15	AA804429	Antiproliferative
17	28	73.7	8	15	AA804444	Antiproliferative
18	28	73.7	8	16	AA834999	Zif268 mutagenised
19	28	73.7	8	20	AAV01261	US5851813 peptide
20	28	73.7	8	20	AAW84388	Finger 3 binding s
21	28	73.7	12	21	AAV98108	Fluorescein bindin
22	28	73.7	12	21	AAV88160	Fluorescein bindin
23	28	73.7	12	22	AAW60032	Internalising pep
24	27	71.1	6	19	AAW83884	Peptide specific a
25	27	71.1	7	22	AAW45777	H11 binding site c
26	27	71.1	8	23	ABW90493	Homindae LDL rece
27	27	71.1	10	18	AAW32766	Human platelet gly
28	27	71.1	11	22	AAE12188	Polyglutamine-glut
29	27	71.1	13	23	ABP46201	Human Blys binding
30	26	68.4	6	24	ABR45313	Staphylococcus aur
31	26	68.4	6	24	ABR45314	Staphylococcus aur
32	26	68.4	6	24	ABR47161	Staphylococcus aur
33	26	68.4	6	24	ABR47162	Staphylococcus aur
34	26	68.4	9	23	AAE26775	Fibrin binding pep
35	26	68.4	9	23	AAU93672	Granulocyte-colony
36	26	68.4	12	21	AAV88104	Oregon green 514 b
37	26	68.4	12	21	AAV88154	Oregon green 514 b
38	26	68.4	13	18	AAW38112	Dystrophin ww doma
39	26	68.4	15	20	AAV30351	Epitope derived fr
40	26	68.4	15	23	AAE26759	Fibrin binding pep
41	26	68.4	15	23	AAE19239	Streptococcus pneu
42	25.5	67.1	15	23	ABP57721	Human nucleotide e
43	25	65.8	6	13	AAW24966	Phe-Arg contg. ant
44	25	65.8	6	15	AAW57391	Peptide for treati
45	25	65.8	6	21	AA801493	Peptide which bind

ALIGNMENTS

RESULT 1

AA801505
ID AA801505 standard; peptide; 6 AA.

XX AC

AA801505;

XX DT 08-NOV-2000 (first entry)

XX DE Peptide which binds to transcription factor E2F-1 DNA binding domain.

XX DE DNA binding; transcription factor; E2F; E2F-1; cell cycle; DP-1;

KW activation; transcription; apoptosis; proliferative disorder;

KW psoriasis; restenosis.

XX OS Synthetic.

XX XX WO2000044771-A1.

XX PN 03-AUG-2000.

XX PD 26-JAN-2000; 2000WO-GB00227.

XX PF 26-JAN-1999; 99GB-0001710.

XX PR (PROL-) PROLIFIX LTD.

XX PA Mueller R, Kontermann RE, Montigiani S;

XX PI Staphylococcus aur

XX XX WPI; 2000-532806/48.

XX DR Peptides binding to the DNA binding domain of transcription factor E2F

XX XX Opioid peptide. S

PT and inhibiting cell cycle progression, useful for the treatment of

[illegible]

XX OS Synthetic.
 XX FH Key .Location/Qualifiers
 FT Misc-difference 2 /note= "Any amino acid"
 FT Misc-difference 3
 FT /note= "Any amino acid"
 XX PN WO200044771-A1.
 XX PD 03-AUG-2000.
 XX PF 26-JAN-2000; 2000WO-GB00227.
 XX PR 26-JAN-1999; 99GB-0001710.
 XX PA (PROL-) PROLIFIX LTD.
 XX PI Mueller R, Kontermann RE, Montigiani S;
 XX DR WPI; 2000-532806/48.
 XX PT Peptides binding to the DNA binding domain of transcription factor E2F
 PT and inhibiting cell cycle progression, useful for the treatment of
 PT cancer
 XX PS Claim 4; Page 9; 42pp; English.
 XX CC Peptides which bind to the DNA binding domain of transcription
 CC factor E2F and inhibit cell cycle progression may be useful as
 CC research agents to investigate the interaction between E2F and Dp-1,
 CC or the activation of transcription by E2F-1/Dp-1 heterodimers. They
 CC may also be used for inducing apoptosis and/or cell cycle arrest in
 CC a cell, particularly for treatment of cancer or other proliferative
 CC disorders such as psoriasis and restenosis.
 XX SQ Sequence 6 AA;
 Query Match 89.5%; Score 34; DB 21; Length 6;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05; Mismatches 0; Indels 0; Gaps 0;
 Matches 6; Conservative 0;
 OY 1 WXXWHF 6
 Db 1 WXXWHF 6
 RESULT 5
 ABR45593
 ID ABR45593 standard; Peptide; 6 AA.
 XX AC ABR45593;
 XX DT 10-JUN-2003 (first entry)
 XX DE Staphylococcus aureus CHIPS-related peptide #783.
 XX KW CHIPS; Chemotaxis Inhibitory Protein; C5a-receptor; CSaR;
 KW formulated peptide receptor; FPR; neutrophil; monocyte; endothelial cell;
 KW inflammation; cardiovascular disease; central nervous system disease;
 KW gastrointestinal disease; skin disease; genitourinary disease;
 KW joint disease; respiratory disease; HIV infection; antiinflammatory;
 KW cardiant; cerebroprotective; neuroprotective; nontropic; dermatological;
 KW gynecological; immunosuppressive; anti-HIV.
 XX OS Staphylococcus aureus.
 OS Synthetic.
 XX PN WO2003006048-A1.
 XX PD 23-JAN-2003.
 XX PF 11-JUL-2001; 2001WO-EP08004.
 XX PR 11-JUL-2001; 2001WO-EP08004.
 XX PA (JARI-) JARI PHARM BV.
 XX PI Van Kessel CPM, Gosselaar-de Haas CJC, Kruijtzer JAW;
 XX PI Van Strijp JAG;

PF 11-JUL-2001; 2001WO-EP08004.
 XX PR 11-JUL-2001; 2001WO-EP08004.
 XX PA (JARI-) JARI PHARM BV.
 XX PI Van Kessel CPM, Gosselaar-de Haas CJC, Kruijtzer JAW;
 XX PI Van Strijp JAG;
 XX DR WPI; 2003-247783/25.
 XX CC Combination of peptides derived from chemotaxis inhibiting protein from
 PT Staphylococcus aureus (CHIPS) having CHIPS activity, useful in
 PT prophylaxis and treatment of inflammation, cardiovascular, skin and
 PT kidney diseases
 XX PS Disclosure; Page 13; 89pp; English.
 XX CC The present invention relates to peptides (ABR44811-ABR47162 and
 CC ABR47164-ABR47385) derived from the Chemotaxis Inhibitory Protein (CHIPS)
 CC from Staphylococcus aureus. The peptide fragments are useful in the
 CC prophylaxis or treatment of diseases or disorders involving the
 CC C5a-receptor (CSaR) and/or formylated peptide receptor (FPR) or
 CC neutrophils, monocytes and endothelial cells or involving acute or
 CC chronic inflammation reactions. The diseases or disorders include
 CC cardiovascular diseases, disease of the central nervous system,
 CC gastrointestinal diseases, skin diseases, genitourinary diseases, joint
 CC diseases, respiratory diseases and HIV infection.
 XX SQ Sequence 6 AA;
 Query Match 76.3%; Score 29; DB 24; Length 6;
 Best Local Similarity 50.0%; Pred. No. 9.3e+05;
 Matches 3; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
 OY 1 WXXWHF 6
 Db 1 WSWFYF 6
 RESULT 6
 ABR45594
 ID ABR45594 standard; Peptide; 6 AA.
 XX AC ABR45594;
 XX DT 10-JUN-2003 (first entry)
 XX DE Staphylococcus aureus CHIPS-related peptide #784.
 XX KW CHIPS; Chemotaxis Inhibitory Protein; C5a-receptor; CSaR;
 KW formylated peptide receptor; FPR; neutrophil; monocyte; endothelial cell;
 KW inflammation; cardiovascular disease; central nervous system disease;
 KW gastrointestinal disease; skin disease; genitourinary disease;
 KW joint disease; respiratory disease; HIV infection; antiinflammatory;
 KW cardiant; cerebroprotective; neuroprotective; nontropic; dermatological;
 KW gynecological; immunosuppressive; anti-HIV.
 XX OS Staphylococcus aureus.
 OS Synthetic.
 XX PN WO2003006048-A1.
 XX PD 23-JAN-2003.
 XX PF 11-JUL-2001; 2001WO-EP08004.
 XX PR 11-JUL-2001; 2001WO-EP08004.
 XX PA (JARI-) JARI PHARM BV.
 XX PI Van Kessel CPM, Gosselaar-de Haas CJC, Kruijtzer JAW;
 XX PI Van Strijp JAG;

XX WPI; 2003-247783/25.
 XX
 PT Combination of peptides derived from chemotaxis inhibiting protein from
 PT *Staphylococcus aureus* (CHIPS) having CHIPS activity, useful in
 PT prophylaxis and treatment of inflammation, cardiovascular, skin and
 PT kidney diseases
 XX
 XX
 PS Disclosure; Page 13; 89pp; English.
 XX
 CC The present invention relates to peptides (ABR44811-ABR47162 and
 CC ABR47164-ABR47385) derived from the Chemotaxis Inhibitory Protein (CHIPS)
 CC from *Staphylococcus aureus*. The peptide fragments are useful in the
 CC prophylaxis or treatment of diseases or disorders involving the
 CC C5a-receptor (C5aR) and/or formylated peptide receptor (FPR) or
 CC neutrophils, monocytes and endothelial cells or involving acute or
 CC chronic inflammation reactions. The diseases or disorders include
 CC cardiovascular diseases, disease of the central nervous system,
 CC gastrointestinal diseases, skin diseases, genitourinary diseases, joint
 CC diseases, respiratory diseases and HIV infection.
 XX
 SQ Sequence 6 AA;
 Query Match 76.3%; Score 29; DB 24; Length 6;
 Best Local Similarity 50.0%; Pred. No. 9.3e+05;
 Matches 3; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
 QY 1 WXXWHF 6
 | | | | |
 Db 1 WTFWYF 6
 | | | | |
 RESULT 7
 AAM00214
 ID AAM00214 standard; Peptide; 14 AA.
 XX
 AC AAM00214;
 XX
 XX 01-OCT-2001 (first entry)
 XX
 XX Human angiopoietin fragment SEQ ID NO: 754.
 XX
 XX Human; single nucleotide polymorphism; SNP; paternity test;
 KW forensic test; aberrant protein expression.
 XX
 XX Homo sapiens.
 OS
 XX
 XX WO200151670-A2.
 PN
 XX
 PD 19-JUL-2001.
 XX
 XX 05-JAN-2001; 2001WO-US00322.
 PF
 XX
 XX 07-JAN-2000; 2000US-0174962.
 PR
 XX
 XX (CURA-) CURAGEN CORP.
 PA
 XX
 XX Shimkets RA, Leach MD;
 PI
 XX
 XX WPI; 2001-451871/48.
 DR
 DR N-PSDB; AAH89323.
 XX
 XX Isolated human polynucleotides containing single nucleotide
 PT polymorphisms, useful for the treatment and diagnosis of e.g. cancer,
 PT infection and diabetes -
 PT
 XX
 XX Disclosure; Page 321; 475pp; English.
 PS
 XX
 CC The present invention relates to human nucleic acids containing single
 CC nucleotide polymorphisms (SNPs). These can be used in forensic and
 CC paternity tests, and to aid in the treatment of diseases associated with
 CC aberrant protein expression, including cancer, amyloidosis, diabetes,
 CC Alzheimer's disease, Down's syndrome, oedema, lupus (SLE), vasculitis,
 CC

CC glomerulonephritis, haemolytic anaemia, thrombocytopaenia, arthritis,
 CC meningitis, muscular disorders, dementia, neurological diseases, tubercous
 CC scleriosis, male infertility, hypercalcaemia, blood pressure disorders,
 CC osteoporosis, pathogenic infections, hypercholesterolaemia, obesity or
 CC autoimmunity. The present sequence is a peptide encoded by a
 CC polymorphism-containing oligonucleotide fragment of the invention.
 XX
 SQ Sequence 14 AA;
 Query Match 76.3%; Score 29; DB 22; Length 14;
 Best Local Similarity 60.0%; Pred. No. 1.1e+02;
 Matches 3; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 1 WXXWH 5
 | | | | |
 Db 7 WYTW 11
 | | | | |
 RESULT 8
 AAW28912
 ID AAW28912 standard; peptide; 6 AA.
 XX
 AC AAW28912;
 XX
 XX 20-JAN-1998 (first entry)
 DT
 XX
 XX Opioid peptide.
 DE
 XX
 XX enkephalin; mu-opioid receptor ligand; agonist; antagonist.
 KW
 XX
 OS Synthetic.
 XX
 XX Key Location/Qualifiers
 FH Modified-site 1
 FT /note= "N-acetyl-Arg"
 FT Modified-site 6
 FT /note= "the C-terminal is in amide form"
 FT
 XX
 XX US5641861-A.
 PN
 XX
 XX 24-JUN-1997.
 PD
 XX
 XX 07-JUN-1995; 95US-0487006.
 PF
 XX
 XX 07-JUN-1995; 95US-0487006.
 PR
 XX
 XX (TORR-) TORREY PINES INST MOLECULAR STUDIES.
 PA
 XX
 XX Dooley CT, Houghten RA;
 PI
 XX
 XX WPI; 1997-340994/31.
 DR
 XX
 XX New opioid peptides which bind mu receptors specifically - have
 PT agonist or antagonist activity and are used for study and
 PT localisation of mu receptors and to treat peripheral side effects of
 PT morphine etc.
 PT
 XX
 XX Disclosure; Column 8; 92pp; English.
 PS
 XX
 CC The patent discloses the following new peptides, which are opioids which
 CC bind specifically to the mu receptor: Ac-Phe-Arg-Trp-Trp-Tyr-Xaa-NH2 (1);
 CC Ac-Arg-Trp-Ile-Gly-Trp-Xaa-NH2 (2); Trp-Trp-Pro-Lys-His-Xaa-NH2 (3);
 CC Trp-Trp-Pro-Xaa1-NH2 (4); Tyr-Pro-Phe-Gly-Phe-Xaa-NH2 (5);
 CC D-Ile-D-Met-D-Ser-D-Trp-D-Trp-(Gly)n-Xaa2-NH2 (6);
 CC D-Ile-D-Met-D-Thr-D-Trp-Gly-Xaa2-NH2 (7); Tyr-Al-B2-C3-NH2 (214);
 CC Pm and red (Me)x(H)y-Tyr-(NMe)z-Tyr-(Xaa3)z-NH2 (221); and
 CC Trp-Trp-Pro-D4-(His)z-(Xaa)z-NH2 (222); where Xaa = any natural amino
 CC acid; Xaa1 = Lys or Arg; n and z = 0 or 1; Xaa2 = Gly or the D form of
 CC any naturally occurring amino acid; Al = D-norvaline or D-norleucine;
 CC B2 = Gly, Phe or Trp; C3 = Trp or naphthylalanine; x and y = 0-2, but
 CC not over 2 in total; Xaa3 = Phe, D-Phe or benzylamino; D4 = Lys or Arg;
 CC Pm and red indicate permethylation and reduction of all CO in peptide
 CC links to methylene. These new compounds are useful: (i) for in vitro

CC assay and study of opiate receptor subtypes, particularly mu receptors
CC in the brain; (ii) for in vivo localisation of receptor subtypes; and
CC (iii) therapeutically to block the peripheral effects (e.g. constipation
CC and pruritus) of centrally acting pain killers such as morphine.
CC They are very selective for the mu opioid receptor, over binding to the
CC delta and kappa receptor subtypes.
CC The present sequence is a specific example of a peptide (2).
XX
SQ Sequence 6 AA;

Query Match 73.7%; Score 28; DB 18; Length 6;
Best Local Similarity 60.0%; Pred. No. 9.3e+05;
Matches 3; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 WXXWH 5
Db 2 WIGWH 6

RESULT 9
AAR93770
ID AAR93770 standard; Protein; 6 AA.

XX AC AAR93770;

DT 23-SEP-1997 (first entry)

DE New peptide which acts as mu-opioid receptor ligand.

XX mu-receptor; opioid; opiate; agonist; antagonist; diagnosis;
KW analgesic.

XX Synthetic.

XX Key Location/Qualifiers

FT Modified-site 1 /note= "N-acetyl-Arg"

FT Misc-difference 6 /note= "this residue is in C-terminal amide form"

XX WO9640208-A1.

XX 19-DEC-1996.

XX 06-JUN-1996; 96WO-US09321.

XX 07-JUN-1995; 95US-0476438.

XX (TORR-) TORREY PINES INST MOLECULAR STUDIES.

XX Dooley CT, Houghten RA;

XX WPI; 1997-051895/05.

XX New mu opioid receptor binding ligand peptide(s) - useful for
PT in-vitro and in-vivo diagnosis, as analgesics, and for blocking
PT peripheral effects of centrally acting drugs, e.g. morphine

XX Disclosure; Page 19; 57pp; English.

XX The patent discloses eight new groups of opioid peptides which bind
CC to the mu-receptor to act as agonists or antagonists. The peptides
CC can be used for in-vitro assays to study opiate receptor subtypes
CC (especially the mu type) in brain or other tissue samples; and for
CC in-vivo diagnosis to localise opioid subtypes. The peptides are also
CC useful as drugs to treat pathologies associated with other compounds
CC which interact with the opioid receptor system. Therefore they can be
CC used in medicaments for treating pathologies associated with the mu
CC receptor and as analgesics. They can be used therapeutically to block
CC the peripheral effects of centrally acting pain killers, e.g. to
CC prevent side effects such as constipation and pruritis associated
CC with morphine. The present sequence represents a specific example
CC of one of the new groups of peptides, of formula

CC Ac-Arg-Trp-Ile-Gly-Trp-Xaa-NH2 where Xaa = a naturally occurring
CC amino acid.

XX Sequence 6 AA;

Query Match 73.7%; Score 28; DB 18; Length 6;
Best Local Similarity 60.0%; Pred. No. 9.3e+05;
Matches 3; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 WXXWH 5
Db 2 WIGWH 6

RESULT 10
AAY23019
ID AAY23019 standard; peptide; 6 AA.

XX AC AAY23019;

DT 23-AUG-1999 (first entry)

DE Opioid peptide which inhibits binding of enkephalin.

XX Opioid peptide; ligand binding; opioid receptor;
KW micro-selective opioid peptide; enkephalin; opioid receptor system;
KW blocking; peripheral effect; centrally acting pain killer; morphine.

XX Synthetic.

XX Key Location/Qualifiers

FT Modified-site 1 /note= "acetylated"

FT Modified-site 6 /note= "amidated"

XX US5919897-A.

XX 06-JUL-1999.

XX 07-JUN-1995; 95US-0488659.

XX 07-JUN-1995; 95US-0488659.

XX (TORR-) TORREY PINES INST MOLECULAR STUDIES.

XX Dooley CT, Houghten RA;

XX WPI; 1999-394647/33.

XX New opioid peptides useful for blocking the peripheral effects of
PT centrally acting pain killers such as morphine

XX Example 1; Column 8; 92pp; English.

XX The specification describes opioid peptides, in which each of the
CC N atoms in the peptide backbone between respective amino acids is
CC modified by permethylation, perallylation, perethylation, perbenzylation.
CC and pernapththylation. The peptides inhibit ligand binding to an opioid
CC receptor. Specifically, the peptides inhibit the micro-selective
CC opioid peptide enkephalin. The peptides can be used in vivo
CC to treat pathologies associated with other compounds which interact with
CC the opioid receptor system. The peptides are especially useful for
CC blocking the peripheral effects of centrally acting pain killers such
CC as morphine. AAY23005-Y23024 represent opioid peptides of the invention,
CC and are derived from the general sequence given in AAY23004.

XX Sequence 6 AA;

Query Match 73.7%; Score 28; DB 20; Length 6;
Best Local Similarity 60.0%; Pred. No. 9.3e+05;
Matches 3; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 WXXWH 5
Db 2 WIGWH 6

RESULT 11
AAB01509.
ID AAB01509 standard; peptide; 6 AA.
XX AC AAB01509;
XX DT 08-NOV-2000 (first entry)
XX DE Peptide which binds to transcription factor E2F-1 DNA binding domain.
XX KW DNA binding; transcription factor; E2F; E2F-1; cell cycle; DP-1;
XX KW activation; transcription; apoptosis; proliferative disorder;
XX KW psoriasis; restenosis.
XX OS Synthetic.
XX PN WO200044771-A1.
XX PD 03-AUG-2000.
XX PF 26-JAN-2000; 2000WO-GB00227.
XX PR 26-JAN-1999; 99GB-0001710.
XX PA (PROL-). PROLIFIX LTD.
XX PI Mueller R, Kontermann RE, Montigiani S;
XX WPI; 2000-532806/48.
XX PT Peptides binding to the DNA binding domain of transcription factor E2F
and inhibiting cell cycle progression, useful for the treatment of
cancer
XX PS Example; Page 26; 42pp; English.
XX CC Peptides which bind to the DNA binding domain of transcription
factor E2F and inhibit cell cycle progression may be useful as
research agents to investigate the interaction between E2F and DP-1,
or the activation of transcription by E2F-1/DP-1 heterodimers. They
may also be used for inducing apoptosis and/or cell cycle arrest in
a cell, particularly for treatment of cancer or other proliferative
disorders such as psoriasis and restenosis.

Qy 1 WXXWH 5
Db 1 WVRWH 5

Query Match 73.7%; Score 28; DB 21; Length 6;
Best Local Similarity 60.0%; Pred. No. 9.3e+05;
Matches 3; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 WXXWH 5
Db 1 WVRWH 5

RESULT 12
ABR45591
ID ABR45591 standard; Peptide; 6 AA.
XX AC ABR45591;
XX DT 10-JUN-2003 (first entry)
XX DE Staphylococcus aureus CHIPS-related peptide #781.
XX KW CHIPS; Chemotaxis Inhibitory Protein; C5a-receptor; C5aR;
formylated peptide receptor; FPR; neutrophil; monocyte; endothelial cell;

KW inflammation; cardiovascular disease; central nervous system disease;
KW gastrointestinal disease; skin disease; genitourinary disease;
KW joint disease; respiratory disease; HIV infection; antiinflammatory;
KW cardiant; cerebroprotective; neuroprotective; nontropic; dermatological;
KW gynecological; immunosuppressive; anti-HIV.
XX Staphylococcus aureus.
OS Synthetic.
XX PN WO2003006048-A1.
XX PD 23-JAN-2003.
XX PF 11-JUL-2001; 2001WO-EP08004.
XX PR 11-JUL-2001; 2001WO-EP08004.
XX PA (JARI-) JARI PHARM BV.
XX PI Van Kessel CPM, Gosselaar-de Haas CJC, Kruijtz JAW;
PI Van Strijp JAG;
XX WPI; 2003-247783/25.
XX DR Combination of peptides derived from chemotaxis inhibiting protein from
Staphylococcus aureus (CHIPS) having CHIPS activity, useful in
prophylaxis and treatment of inflammation, cardiovascular, skin and
kidney diseases
XX PS Disclosure; Page 13; 89pp; English.
XX CC The present invention relates to peptides (ABR44811-ABR47162 and
ABR47164-ABR47385) derived from the Chemotaxis Inhibitory Protein (CHIPS)
from Staphylococcus aureus. The peptide fragments are useful in the
prophylaxis or treatment of diseases or disorders involving the
C5a-receptor (C5aR) and/or formylated peptide receptor (FPR) or
neutrophils, monocytes and endothelial cells or involving acute or
chronic inflammation reactions. The diseases or disorders include
cardiovascular diseases, disease of the central nervous system,
gastrointestinal diseases, skin diseases, genitourinary diseases, joint
diseases, respiratory diseases and HIV infection.

Qy 1 WXXWH 6
Db 1 WFFWYF 6

Query Match 73.7%; Score 28; DB 24; Length 6;
Best Local Similarity 50.0%; Pred. No. 9.3e+05;
Matches 3; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 WXXWH 6
Db 1 WFFWYF 6

RESULT 13
ABR45592
ID ABR45592 standard; Peptide; 6 AA.
XX AC ABR45592;
XX DT 10-JUN-2003 (first entry)
XX DE Staphylococcus aureus CHIPS-related peptide #782.
XX KW CHIPS; Chemotaxis Inhibitory Protein; C5a-receptor; C5aR;
formylated peptide receptor; FPR; neutrophil; monocyte; endothelial cell;
KW inflammation; cardiovascular disease; central nervous system disease;
KW gastrointestinal disease; skin disease; genitourinary disease;
KW joint disease; respiratory disease; HIV infection; antiinflammatory;
KW cardiant; cerebroprotective; neuroprotective; nontropic; dermatological;
KW gynecological; immunosuppressive; anti-HIV.
XX Staphylococcus aureus.
OS Synthetic.

XX WO2003006048-A1.
 PN
 XX
 PD 23-JAN-2003.
 XX
 XX
 PF 11-JUL-2001; 2001WO-EP08004.
 XX
 PR 11-JUL-2001; 2001WO-EP08004.
 XX
 PA (JARI-) JARI PHARM BV.
 XX
 XX Van Kessel CPM, Gosselaar-de Haas CJC, Kruijtzer JAW;
 PI Van Strijp JAG;
 XX
 XX WPI; 2003-247783/25.
 DR
 XX
 XX Combination of peptides derived from chemotaxis inhibiting protein from
 PT Staphylococcus aureus (CHIPS) having CHIPS activity, useful in
 PT prophylaxis and treatment of inflammation, cardiovascular, skin and
 PT kidney diseases
 XX
 XX Disclosure; Page 13; 89pp; English.
 PS
 XX
 XX The present invention relates to peptides (ABR44811-ABR47162 and
 CC ABR47164-ABR47385) derived from the Chemotaxis Inhibitory Protein (CHIPS)
 CC from Staphylococcus aureus. The peptide fragments are useful in the
 CC prophylaxis or treatment of diseases or disorders involving the
 CC C5a-receptor (C5aR) and/or formulated peptide receptor (FPR) or
 CC neutrophils, monocytes and endothelial cells or involving acute or
 CC chronic inflammation reactions. The diseases or disorders include
 CC cardiovascular diseases, disease of the central nervous system,
 CC gastrointestinal diseases, skin diseases, genitourinary diseases, joint
 CC diseases, respiratory diseases and HIV infection.
 XX
 XX Sequence 6 AA;
 SQ
 Query Match 73.7%; Score 28; DB 24; Length 6;
 Best Local Similarity 50.0%; Pred. No. 9.3e+05;
 Matches 3; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
 QY 1 WXXWHF 6
 DB 1 WIFWYF 6
 RESULT 14
 AAY01258
 ID AAY01258 standard; peptide; 7 AA.
 XX
 AC AAY01258;
 XX
 XX 01-JUN-1999 (first entry)
 DT
 XX
 XX US5851813 peptide sequence number 45.
 DE
 XX Antigenic composition; primate; lentivirus; nef gene; vaccine;
 KW infection; AIDS; SIVmac239; deletion; mutant.
 XX
 XX Simian immunodeficiency virus.
 OS Synthetic.
 XX
 XX US5851813-A.
 PN
 XX
 PD 22-DEC-1998.
 XX
 XX 27-JAN-1994; 94US-0188583.
 PF
 XX 27-JAN-1994; 94US-0188583.
 PR 12-JUL-1990; 90US-0551945.
 PR 09-JUL-1991; 91US-0727494.
 XX
 XX (HARD) HARVARD COLLEGE.
 PA
 XX

PI Desrosiers RC;
 XX
 DR WPI; 1999-080408/07.
 DR N-PSDB; AAX27657.
 XX
 XX Lentivirus antigenic compositions - containing lentivirus with nef
 PT gene deletion
 PT
 XX
 PS Disclosure; Fig 5A-B; 93pp; English.
 XX
 XX The invention relates to an antigenic composition comprising an isolated
 CC primate lentivirus whose genome contains an engineered non-revertible
 CC null mutation in the nef gene, or an infectious DNA clone in a carrier.
 CC The antigenic composition is used in vaccines against infection by the
 CC lentivirus, e.g. AIDS.
 XX
 XX Sequence 7 AA;
 SQ
 Query Match 73.7%; Score 28; DB 20; Length 7;
 Best Local Similarity 60.0%; Pred. No. 9.3e+05;
 Matches 3; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 1 WXXWH 5
 DB 1 WEYWH 5
 RESULT 15
 AAB49729
 ID AAB49729 standard; peptide; 7 AA.
 XX
 AC AAB49729;
 XX
 XX 10-APR-2001 (first entry)
 DT
 XX
 XX Peptide SEQ ID 40 which binds to the TADG5 protein.
 DE
 XX TADG5; human; zinc finger; SH3 domain; cell signalling;
 KW cell cycle control.
 XX
 XX Unidentified.
 OS
 XX WO200102432-A1.
 PN
 XX
 PD 11-JAN-2001.
 XX
 XX 30-JUN-2000; 2000WO-US18304.
 PF
 XX
 PR 01-JUL-1999; 99US-0346510.
 XX
 XX (UYAR-) UNIV ARKANSAS.
 PA
 XX O'Brien TJ, Wang Y;
 PI
 XX WPI; 2001-123102/13.
 DR
 XX Novel SH3 domain-containing TADG5 protein useful for regulating gene
 PT replication, as a nutrition supplement, and as a marker for human
 PT tissue, or in cell cycle control -
 PT
 XX Example 6; Page 36; 85pp; English.
 PS
 XX This invention relates to an SH3 domain-containing protein termed TADG5,
 CC and its variants. The invention includes amino acid and polynucleotide
 CC sequences for TADG5, and oligonucleotides which bind to either the basic
 CC amino acid region and/or the zinc finger motif of the TADG5 protein. The
 CC basic amino acid region or zinc finger motif of TADG5 is useful for
 CC regulating the expression of the TADG5 gene in a cell. The TADG5 protein
 CC is useful as a source of amino acids, as a nutrition supplement, and as a
 CC marker for human tissue, or in cell cycle control. TADG5 protein or
 CC peptides generated from the protein sequence are useful as antigens for
 CC the production of polyclonal and monoclonal antibodies. DNA encoding
 CC TADG5 is useful as an antisense vehicle for cell cycle control by

CC shutting down signalling or cell division. The present sequence
CC represents a peptide identified from a phage display peptide library
CC through biopanning with the TADG5 protein.

XX
SQ Sequence 7 AA;

Query Match 73.7%; Score 28; DB 22; Length 7;
Best Local Similarity 60.0%; Pred. NO. 9.3e+05;
Matches 3; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 WXXWH 5
| | |
Db 3 WMDWH 7

Search completed: December 3, 2003, 11:51:16
Job time : 34.6667 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: December 3, 2003, 11:48:35 ; Search time 11 Seconds
(without alignments)
52.456 Million cell updates/sec

Title: US-09-912-414-11

Perfect score: 38
Sequence: 1 WXXWHF 6

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283308 seqs, 96168682 residues

Total number of hits satisfying chosen parameters: 2520

Minimum DB seq length: 0
Maximum DB seq length: 15

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : PIR_76:.*
1: pir1:.*
2: pir2:.*
3: pir3:.*
4: pir4:.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	23	60.5	9	2 S07241	litorin - Rohde's
2	22	57.9	9	2 S07205	litorin 2-Glu - Au
3	22	57.9	9	2 S07204	litorin I - Austr
4	22	57.9	10	2 F49033	T-cell receptor ga
5	22	57.9	13	2 A60409	bombesin-like pept
6	21	55.3	9	2 A43848	cell surface adhes
7	21	55.3	12	2 PH1308	ig heavy chain DV
8	20	52.6	12	2 PH1324	ig heavy chain DV
9	20	52.6	13	2 S61798	T-cell-specific tr
10	20	52.6	14	2 PH1322	ig heavy chain DV
11	18	47.4	9	2 D57444	neuropeptide Grp-A
12	17	44.7	12	2 A29169	phospholipase A2 (
13	17	44.7	15	2 PA0099	phenotypic variati
14	16	42.1	8	2 T13818	cytochrome oxidase
15	16	42.1	10	2 PQ0177	neuromedin C - lau
16	16	42.1	10	2 A60647	neuromedin C - bov
17	16	42.1	10	2 T13976	cytochrome-c oxida
18	16	42.1	10	2 T17057	cytochrome-c oxida
19	16	42.1	10	2 T12303	cytochrome-c oxida
20	16	42.1	10	2 T14019	cytochrome-c oxida
21	16	42.1	10	2 T17060	cytochrome-c oxida
22	16	42.1	10	2 T14043	cytochrome-c oxida
23	16	42.1	10	2 T14054	cytochrome-c oxida
24	16	42.1	10	2 T17066	cytochrome-c oxida
25	16	42.1	10	2 T17069	cytochrome-c oxida
26	16	42.1	10	2 T12308	cytochrome-c oxida
27	16	42.1	10	2 T17072	cytochrome-c oxida
28	16	42.1	10	2 T12312	cytochrome-c oxida
29	16	42.1	10	2 T12316	cytochrome-c oxida

30 42.1 10 2 T12321 cytochrome-c oxida
31 16 42.1 10 2 T14219 cytochrome-c oxida
32 16 42.1 14 1 BSTD bombesin - fire-be
33 16 42.1 14 2 PT0077 proteochondroitin c
34 15 39.5 9 2 S56004 glucan 1,3-beta-gl
35 15 39.5 12 2 S25039 T-cell receptor al
36 15 39.5 13 2 S23372 ig heavy chain v r
37 15 39.5 13 2 B25448 ig kappa-1 chain,
38 15 39.5 13 2 B26406 ig kappa chain J r
39 15 39.5 13 2 A47630 ig kappa chain J r
40 15 39.5 15 2 S24159 leukocyte elastase
41 14 36.8 17 2 S21330 demorphin (Trp-4,
42 14 36.8 10 2 A58365 neuropeptide FRRa
43 14 36.8 10 2 T17054 cytochrome-c oxida
44 14 36.8 10 2 T17063 cytochrome-c oxida
45 14 36.8 10 2 T12325 cytochrome-c oxida

ALIGNMENTS

RESULT 1

S07241
litorin - Rohde's leaf frog
C:Species: Phyllomedusa rohdei (Rohde's leaf frog)
C:Date: 12-Feb-1993 #sequence_revision 12-Mar-1993 #text_change 18-Aug-2000
C:Accession: S07241
R:Barra, D.; Palconieri Erspamer, G.; Simmaco, M.; Bossa, F.; Melchiorri, P.; Erspamer
FEBS Lett. 182, 53-56, 1985
A:Title: Rohdei-litorin: a new peptide from the skin of Phyllomedusa rohdei.
A:Reference number: S07241; MUID:85127560; PMID:3838283
A:Accession: S07241
A:Molecule type: protein
A:Residues: 1-9 <BAR>
C:Superfamily: gastrin-releasing peptide
C:Keywords: amidated carboxyl end; blocked amino end; neuropeptide; pyroglutamic acid
F:1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental
F:9/Modified site: amidated carboxyl end (Met) #status experimental

Query Match 60.5%; Score 23; DB 2; Length 9;
Best Local Similarity 50.0%; Pred. No. 2.8e+05;
Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 WXXWHF 6
| | |
Db 3 WATGHF 8

RESULT 2

S07205
litorin 2-Glu - Australian tree frog (Litoria aurea)
C:Species: Litoria aurea
C:Date: 12-Feb-1993 #sequence_revision 12-Mar-1993 #text_change 18-Aug-2000
C:Accession: S07205
R:Anastasi, A.; Montecucchi, P.; Angelucci, P.; Erspamer, V.; Endean, R.
Experientia 33, 1289, 1977
A:Title: Glu(OMe)(2)-litorin, the second bombesin-like peptide occurring in methanol e:
A:Reference number: S07205; MUID:78003546; PMID:908397
A:Accession: S07205
A:Molecule type: protein
A:Residues: 1-9 <ANA>
C:Superfamily: gastrin-releasing peptide
C:Keywords: amidated carboxyl end; neuropeptide; pyroglutamic acid
F:1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental
F:9/Modified site: amidated carboxyl end (Met) #status experimental

Query Match 57.9%; Score 22; DB 2; Length 9;
Best Local Similarity 50.0%; Pred. No. 2.8e+05;
Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 WXXWHF 6
| | |
Db 3 WATGHF 8

```
RESULT 3
S07204
litorin I - Australian tree frog (Litoria aurea)
C:Species: Litoria aurea
C>Date: 12-Feb-1993 #sequence_revision 12-Mar-1993 #text_change 18-Aug-2000
C:Accession: S07204
R:Anastasi, A.; Erspamer, V.; Endean, R.
Experientia 31, 510-511, 1975
A:Title: Amino acid composition and sequence of litorin, a bombesin-like nonapeptide from
A:Reference number: S07204; MUID:75187011; PMID:1140241
A:Accession: S07204
A:Molecule type: protein
A:Residues: 1-9 <ANA>
C:Superfamily: gastrin-releasing peptide
F:1/Modified site: amidated carboxyl end (Met) #status experimental
F:9/Modified site: amidated carboxyl end (Met) #status experimental

Query Match 57.9%; Score 22; DB 2; Length 9;
Best Local Similarity 50.0%; Pred. No. 2.8e+05;
Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 WXXWHF 6
| |
Db 3 WVGHF 8

RESULT 4
F49033
T-cell receptor gamma chain V-D-J region - human (fragment)
C:Species: Homo sapiens (man)
C>Date: 19-Dec-1993 #sequence_revision 17-Mar-2000 #text_change 17-Mar-2000
C:Accession: F49033
R:Morita, C.T.; Verma, S.; Aparicio, P.; Martinez, C.; Spits, H.; Brenner, M.B.
Eur. J. Immunol. 21, 2999-3007, 1991
A:Title: Functionally distinct subsets of human gamma/delta T cells.
A:Reference number: A49033; MUID:92083926; PMID:1684157
A:Accession: F49033
A>Status: preliminary
A:Molecule type: DNA
A:Residues: 1-10 <MOR>
A:Cross-references: GB:S72605; NID:G240700; PIDN:AAB20632.1; PID:G240701
A:Note: sequence extracted from NCBI backbone (NCBIN:72605, NCBI:P:72606)
C:Keywords: T-cell receptor

Query Match 57.9%; Score 22; DB 2; Length 10;
Best Local Similarity 40.0%; Pred. No. 3.7e+02;
Matches 2; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 WXXWH 5
| |
Db 4 WERYW 8

RESULT 5
A60409
bombesin-like peptide L - frog (Pseudophryne guentheri)
C:Species: Pseudophryne guentheri
C>Date: 30-Jan-1993 #sequence_revision 30-Jan-1993 #text_change 18-Aug-2000
C:Accession: A60409
R:Simmaco, M.; Severini, C.; De Biase, D.; Barra, D.; Bossa, F.; Roberts, J.D.; Melchior
Peptides 11, 299-304, 1990
A:Title: Six novel tachykinin- and bombesin-related peptides from the skin of the Austr
A:Reference number: A60409; MUID:90287814; PMID:2356157
A:Accession: A60409
A:Molecule type: protein
A:Residues: 1-13 <SIM>
C:Superfamily: unassigned animal peptides
C:Keywords: amidated carboxyl end; hormone; neuropeptide; pyroglutamic acid
F:1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental
F:13/Modified site: amidated carboxyl end (Met) #status experimental
```

```
Query Match 57.9%; Score 22; DB 2; Length 13;
Best Local Similarity 50.0%; Pred. No. 4.6e+02;
Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 WXXWHF 6
| |
Db 7 WVGHF 12

RESULT 6
A43848
cell surface adhesin for heparan sulfate, 66K - Staphylococcus aureus (fragment)
C:Species: Staphylococcus aureus
C>Date: 10-Mar-1993 #sequence_revision 18-Nov-1994 #text_change 24-Feb-1995
C:Accession: A43848
R:Liang, O.D.; Ascencio, F.; Fransson, L.A.; Wadstrom, T.
Infect. Immun. 60, 899-906, 1992
A:Title: Binding of heparan sulfate to Staphylococcus aureus.
A:Reference number: A43848; MUID:92176005; PMID:1541563
A:Accession: A43848
A>Status: preliminary
A:Molecule type: protein
A:Residues: 1-9 <LFA>
A:Note: sequence extracted from NCBI backbone (NCBIP:85442)

Query Match 55.3%; Score 21; DB 2; Length 9;
Best Local Similarity 50.0%; Pred. No. 2.8e+05;
Matches 2; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 WXXW 4
| |
Db 2 WTGW 5

RESULT 7
PH1308
IG heavy chain DJ region (clone C731-94) - human (fragment)
C:Species: Homo sapiens (man)
C>Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 07-May-1999
C:Accession: PH1308
R:Wasserman, R.; Galli, N.; Ito, Y.; Reichard, B.A.; Shane, S.; Rovera, G.
J. Exp. Med. 176, 1577-1581, 1992
A:Title: Predominance of fetal type DJH joining in young children with B precursor lym
A:Reference number: PH1302; MUID:93094761; PMID:1460419
A:Accession: PH1308
A:Molecule type: DNA
A:Residues: 1-12 <WAS>
C:Keywords: heterotetramer; immunoglobulin

Query Match 55.3%; Score 21; DB 2; Length 12;
Best Local Similarity 40.0%; Pred. No. 6.2e+02;
Matches 2; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 WXXWH 5
| |
Db 7 WQWNN 11

RESULT 8
PH1324
IG heavy chain DJ region (clone C510-100) - human (fragment)
C:Species: Homo sapiens (man)
C>Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 07-May-1999
C:Accession: PH1324
R:Wasserman, R.; Galli, N.; Ito, Y.; Reichard, B.A.; Shane, S.; Rovera, G.
J. Exp. Med. 176, 1577-1581, 1992
A:Title: Predominance of fetal type DJH joining in young children with B precursor lym
A:Reference number: PH1302; MUID:93094761; PMID:1460419
A:Accession: PH1324
A:Molecule type: DNA
A:Residues: 1-12 <WAS>
C:Keywords: heterotetramer; immunoglobulin
```


Query Match 52.6%; Score 20; DB 2; Length 12;
 Best Local Similarity 50.0%; Pred. No. 9e+02;
 Matches 2; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 WXXW 4
 | |
 Db 5 WYWW 8

RESULT 9
 S61798
 T-cell-specific transcription factor 1 splice form G - human (fragment)
 N:Alternate names: transcription factor TCF-1G
 C:Species: Homo sapiens (man)
 C:Date: 19-Mar-1997 #sequence_revision 18-Jul-1997 #text_change 24-Jul-1998
 C:Accession: S61798; S61880
 R:Mayer, K.; Wolff, E.; Clevers, H.; Ballhausen, W.G.
 Biochim. Biophys. Acta 1263, 169-172, 1995
 A:Title: The human high mobility group (HMG)-box transcription factor TCF-1: novel isoform
 A:Reference number: S61796; MUID:95367594; PMID:7640309
 A:Accession: S61798
 A:Molecule type: mRNA
 A:Residues: 1-13 <MAY>
 A:Cross-references: EMBL:747364
 A:Note: DNA was also sequenced
 C:Keywords: alternative splicing; DNA binding; transcription factor

Query Match 52.6%; Score 20; DB 2; Length 13;
 Best Local Similarity 50.0%; Pred. No. 9.7e+02;
 Matches 2; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY -1 WXXW 4
 . | |
 Db 6 WDWG 9

RESULT 10
 PH1322
 Ig heavy chain DJ region (clone C344-99) - human (fragment)
 C:Species: Homo sapiens (man)
 C:Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 07-May-1999
 C:Accession: PH1322
 R:Wasserman, R.; Galili, N.; Ito, Y.; Reichard, B.A.; Shane, S.; Rovera, G.
 J. Exp. Med. 176, 1577-1581, 1992
 A:Title: Predominance of fetal type DJH joining in young children with B precursor lymphoma
 A:Reference number: PH1302; MUID:93094761; PMID:1460419
 A:Accession: PH1322
 A:Molecule type: DNA
 A:Residues: 1-14 <WAS>
 C:Keywords: heterotetramer; immunoglobulin

Query Match 52.6%; Score 20; DB 2; Length 14;
 Best Local Similarity 50.0%; Pred. No. 1e+03;
 Matches 2; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 WXXW 4
 | |
 Db 6 WDWY 9

RESULT 11
 DS7444
 neuropeptide Grb-AST B4 - two-spotted cricket
 C:Species: Gryllus bimaculatus (two-spotted cricket)
 C:Date: 26-Jan-1996 #sequence_revision 26-Jan-1996 #text_change 26-Jan-1996
 C:Accession: DS7444
 R:Lorenz, M.W.; Kellner, R.; Hoffmann, K.H.
 J. Biol. Chem. 270, 21103-21108, 1995
 A:Title: A family of neuropeptides that inhibit juvenile hormone biosynthesis in the cricket
 A:Reference number: A57444; MUID:95403341; PMID:7673141
 A:Accession: DS7444
 A:Status: preliminary

A:Molecule type: protein
 A:Residues: 1-9 <LOR>

Query Match 47.4%; Score 18; DB 2; Length 9;
 Best Local Similarity 40.0%; Pred. No. 2.8e+05;
 Matches 2; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 WXXWH 5
 | |
 Db 2 WERPH 6

RESULT 12

A29169
 phospholipase A2 (EC 3.1.1.4) precursor - sheep (fragment)
 C:Species: Ovis orientalis aries, Ovis ammon aries (domestic sheep)
 C:Date: 02-Jun-1998 #sequence_revision 02-Jun-1998 #text_change 31-Oct-1997
 C:Accession: A29169
 R:Dutilh, C.E.; Van Doren, P.J.; Verheul, F.E.A.M.; De Haas, G.H.
 Eur. J. Biochem. 53, 91-97, 1975
 A:Title: Isolation and properties of phospholipase A2 from ox and sheep pancreas.
 A:Reference number: A94661

A:Accession: A29169
 A:Molecule type: protein
 A:Residues: 1-12 <DUT>
 A:Superfamily: phospholipase A2
 C:Keywords: carboxylic ester hydrolase; pyroglutamic acid
 P:1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental

Query Match 44.7%; Score 17; DB 2; Length 12;
 Best Local Similarity 66.7%; Pred. No. 2.8e+03;
 Matches 2; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 WHF 6
 | |
 Db 10 WQF 12

RESULT 13

PA0099
 phenotypic variation protein - fungus (Fusarium sporotrichioides) (fragment)
 C:Species: Fusarium sporotrichioides
 C:Date: 20-Feb-1995 #sequence_revision 20-Feb-1995 #text_change 20-Feb-1995
 C:Accession: PA0099
 R:Chow, L.P.; Fukaya, N.; Sugiura, Y.; Ueno, Y.; Tabuchi, K.; Tsugita, A.
 submitted to JPID, October 1994
 A:Description: Two dimensional polyacrylamide gel electrophoresis of Fusarium sporotrichioides
 A:Reference number: PA0051
 A:Accession: PA0099
 A:Molecule type: protein
 A:Residues: 1-15 <CHO>

Query Match 44.7%; Score 17; DB 2; Length 15;
 Best Local Similarity 66.7%; Pred. No. 3.3e+03;
 Matches 2; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 WHF 6
 | |
 Db 5 WEF 7

RESULT 14

T13818
 cytochrome oxidase subunit I - Atlantic hagfish mitochondrion (fragment)
 C:Species: mitochondrion Myxine glutinosa (Atlantic hagfish)
 C:Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 21-Jul-2000
 C:Accession: T13818
 R:Delarbre, C.; Barriol, V.; Tillier, S.; Janvier, P.; Gachelin, G.
 Mol. Biol. Evol. 14, 807-813, 1997
 A:Title: The main features of the craniate mitochondrial DNA between the ND1 and the C
 A:Reference number: 217775; MUID:97398704; PMID:9254918
 A:Accession: T13818
 A:Status: preliminary; translated from GB/EMBL/DBJ

A:Molecule type: DNA
 A:Residues: 1-8
 A:Cross-References: EMBL:Y09527; NID:G2340019; PIDN:CAA70718.1; PID:G2340022
 C:Genetics:
 A:Genome: mitochondrion
 A>Note: COI
 C:Keywords: mitochondrion

Query Match 42.1%; Score 16; DB 2; Length 8;
 Best Local Similarity 66.7%; Pred. No. 2.8e+05;
 Matches 2; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 WHF 6
 |
 Db 6 WFF 8

RESULT 15
 PQ0177
 neuromedin C - laughing frog
 C:Species: Rana ridibunda (laughing frog)
 C:Date: 23-Nov-1991 #sequence_revision 23-Nov-1991 #text_change 11-Jan-2000
 C:Accession: PQ0177
 R;Conlon, J.M.; O'Harte, F.; Vaudry, H.
 Biochem. Biophys. Res. Commun. 178, 526-530, 1991
 A:Title: Primary structures of the bombesin-like neuropeptides in frog brain show that
 A:Reference number: PQ0177; MUID:91315477; PMID:1859413
 A:Accession: PQ0177

A:Molecule type: protein
 A:Residues: 1-10 <CON>
 A:Experimental source: brain
 C:Superfamily: gastrin-releasing peptide
 C:Keywords: amidated carboxyl end
 F10/Modified site: amidated carboxyl end (Met) #status predicted

Query Match 42.1%; Score 16; DB 2; Length 10;
 Best Local Similarity 40.0%; Pred. No. 3.4e+03;
 Matches 2; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 WXXWH 5
 |
 Db 4 WAVGH 8

Search completed: December 3, 2003, 11:54:09
 Job time: 12 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: December 3, 2003, 11:44:55 ; Search time 7.33333 Seconds
(without alignments)
38.476 Million cell updates/sec

Title: US-09-912-414-11

Perfect score: 38

Sequence: 1 WXXWHF 6

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 127863 seqs, 47026705 residues

Total number of hits satisfying chosen parameters: 795

Minimum DB seq length: 0
Maximum DB seq length: 15

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : SwissProt_41.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	23	60.5	9	1 LITR PHYRO	P08946 phylomedusa
2	23	60.5	11	1 RANC_RANPI	P08951 rana pipiens
3	22	57.9	9	1 LITO_LITAU	P08945 litoria cit
4	22	57.9	13	1 BOML_PSEGU	P42991 pseudophryn
5	21	55.3	10	1 LABA_JATMU	P13270 jatropha mu
6	19	50.0	9	1 COW_CONVE	P83047 conus ventr
7	16	42.1	10	1 GRP2_CHEPR	P80678 chelyosoma
8	16	42.1	10	1 GRP2_RANPI	P23260 rana ridibu
9	16	42.1	14	1 ALYT_ALYOB	P08944 alytes obst
10	15	39.5	15	1 RM12_YEAST	P36522 saccharomyc
11	14	36.8	10	1 FARP_MYTED	P42560 mytilus edu
12	14	36.8	11	1 CA22_LITCI	P82088 litoria cit
13	14	36.8	11	1 CA42_LITCI	P82092 litoria cit
14	14	36.8	11	1 MLG_THETS	P41989 theromyzon
15	14	36.8	13	1 CXA2_CONGE	P01520 conus geogr
16	14	36.8	13	1 MLA_ANOCA	P41589 anolis caro
17	14	36.8	13	1 MLA_CAMDR	P01198 camelus dro
18	14	36.8	15	1 AH2_PRUSE	P29260 prunus sero
19	14	36.8	15	1 DCWM_PSECH	P19917 pseudomonas
20	13	34.2	10	1 APE_CAPGI	P80474 capnocytoph
21	13	34.2	10	1 GON1_ALLMI	P37041 alligator m
22	13	34.2	10	1 GON2_CHICK	P37043 gallus gall
23	13	34.2	10	1 GON3_ONCKE	P20367 oncorhynch
24	13	34.2	12	1 UR2A_CATCO	P04558 catostomus
25	13	34.2	12	1 UR2B_CATCO	P04559 catostomus
26	13	34.2	12	1 UR2B_CVPCA	P04561 cyprinus ca
27	13	34.2	12	1 UR2_GIUMI	P01147 gillichthys
28	13	34.2	12	1 UR2_POISP	P81022 polyodon sp
29	13	34.2	12	1 UR2_SCYCA	P35490 scyliorhinu
30	13	34.2	15	1 UC16_MAIZE	P80622 zea mays (m
31	12	31.6	6	1 LOK1_LOCFI	P41491 locusta mig
32	12	31.6	8	1 LCK2_LEUMA	P21141 leucophaea
33	12	31.6	8	1 LCK5_LEUMA	P19987 leucophaea

ALIGNMENTS

RESULT 1

LITR_PHYRO STANDARD; PRT; 9 AA.
AC P08946;
DT 01-NOV-1988 (Rel. 09, Created)
DT 01-FEB-1994 (Rel. 28, Last sequence update)
DT 15-SEP-2003 (Rel. 42, Last annotation update)
DE Rhodel-litorin.
OS Phylomedusa rohdei (Rohde's leaf frog).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Neobatrachia; Bufonoidea; Hylidae;
OC Phyllomedusinae; Phyllomedusa.
OX NCBI_TaxID=8394;
RN [1]
RP SEQUENCE.
RX TISSUE=Skin secretion;
RX MEDLINE=85127560; PubMed=3838283;
RA Barra D., Erspamer G.F., Simmaco M., Bossa F., Melchiorri P.,
RA Erspamer V.;
RT "Rhodel-litorin: a new peptide from the skin of Phyllomedusa rohdei.";
RL FEBS Lett. 182:53-56(1985).
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- TISSUE SPECIFICITY: Skin.
CC -!- SIMILARITY: BELONGS TO THE BOMBESIN/NEUROMEDIN B/RANATENSIN
CC FAMILY.
CC PIR; S07241; S07241.
DR InterPro; IPR000874; Bombesin.
DR Pfam; PF02044; Bombesin; 1.
DR PROSITE; PS00257; BOMBESIN; 1.
KW Amphibian defense peptide; Bombesin family; Amidation;
FT Pyroglutamate carboxylic acid.
FT MOD_RES 1 1 PYROLIDONE CARBOXYLIC ACID.
FT MOD_RES 9 9 AMIDATION.
SQ SEQUENCE 9 AA; 1090 MW; 4ECCC1E861ADC377 CRC64;

Query Match 60.5%; Score 23; DB 1; Length 9;
Best Local Similarity 50.0%; Pred. No. 1.3e+05;
Matches 3; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 1 WXXWHF 6
Db 3 WATGHF 8

RESULT 2

RANC_RANPI STANDARD; PRT; 11 AA.
ID RANC_RANPI
AC P08951;
DT 01-NOV-1988 (Rel. 09, Created)
DT 01-FEB-1988 (Rel. 09, Last sequence update)
DT 15-SEP-2003 (Rel. 42, Last annotation update)
DE Ranatensin-C.
OS Rana pipiens (Northern leopard frog).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Neobatrachia; Ranoidea; Ranidae; Rana.
OX NCBI_TaxID=8404;


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RT by means of two-dimensional NMR. ";
RL FEBS Lett. 256:91-96(1989).
CC !- FUNCTION: LABADITIN IS AN ACTIVE PEPTIDE WHICH INHIBITS THE
CC CLASSICAL PATHWAY OF COMPLEMENT ACTIVATION IN VITRO. ACTIVITY
CC SEEMS TO BE BASED ON AN INTERACTION WITH C1.
CC !- PTM: This is a cyclic peptide.
CC !- DISEASE: LATEX OF THIS PLANT IS USED IN FOLKLORIC MEDICINE FOR
CC TREATMENT OF INFECTED WOUNDS, SKINS INFECTIONS AND SCABIES.
SQ SEQUENCE 10 AA; 1089 MW; D98AAD6362D1B362 CRC64;

Query Match 55.3%; Score 21; DB 1; Length 10;
Best Local Similarity 50.0%; Pred. No. 1.9e+02; Mismatches 2; Indels 0; Gaps 0;
Matches 2; Conservative 0;

Qy 1 WXXW 4
Db 4 WTVW 7

RESULT 6
COW CONVE STANDARD; PRT; 9 AA.
AC P83047.
DT 16-OCT-2001 (Rel. 40, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Contryphan-Vn.
OS Conus ventricosus (Mediterranean cone).
OC Eukaryota; Metazoa; Mollusca; Gastropoda; Orthogastropoda;
OC Apogastropoda; Caenogastropoda; Sorbeoconcha; Hypsogastropoda;
OC Neogastropoda; Conoidea; Conidae; Conus.
OX NCBI_TaxID=117992;
RN [1]
RP SEQUENCE, SYNTHESIS, AND MASS SPECTROMETRY.
RC TISSUE=Venom;
RX MEDLINE=21547785; PubMed=11688995;
RA Massilia G.R., Schinina M.E., Ascenzi P., Politicelli F.;
RT "Contryphan-Vn: a novel peptide from the venom of the Mediterranean
RL snail Conus ventricosus.";
CC !- SUBCELLULAR LOCATION: Secreted.
CC !- TISSUE SPECIFICITY: Expressed by the venom duct.
CC !- MASS SPECTROMETRY: MW=1088.6; METHOD=WALDI.
CC !- SIMILARITY: BELONGS TO THE CONTRYPHAN FAMILY.
KW Toxin; Amidation; D-amino acid.
FT DISULFID 3 9
FT MOD RES 5 5 D-TRYPTOPHAN.
FT MOD RES 9 9 AMIDATION.
SQ SEQUENCE 9 AA; 1091 MW; 8D38676323676EBA CRC64;

Query Match 50.0%; Score 19; DB 1; Length 9;
Best Local Similarity 50.0%; Pred. No. 1.3e+05; Mismatches 2; Indels 0; Gaps 0;
Matches 2; Conservative 0;

Qy 1 WXXW 4
Db 5 WKPW 8

RESULT 7
GON2_CHEPR STANDARD; PRT; 10 AA.
AC P80678;
DT 01-NOV-1997 (Rel. 35, Created)
DT 01-NOV-1997 (Rel. 35, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Gonadoliberin II (Gonadotropin-releasing hormone II) (GnRH-II)
DE (Luliberin II).
OS Chelyosoma productum.
OC Eukaryota; Metazoa; Chordata; Urochordata; Ascidiacea; Enterogona;
OC Phlebobranchia; Corellidae; Chelyosoma.
OX NCBI_TaxID=71177;
RN [1]

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RP SEQUENCE.
RX MEDLINE=96413669; PubMed=8816823;
RA Powell J.F.F., Reska-Skinner S.M., Prakash M.O., Fischer W.H.,
RA Park M., Rivier J.E., Craig A.G., Mackie G.O., Sherwood N.M.;
RT "Two new forms of gonadotropin-releasing hormone in a protochordate
RT and the evolutionary implications.";
RL Proc. Natl. Acad. Sci. U.S.A. 93:10461-10464(1996).
CC !- FUNCTION: Stimulates the secretion of gonadotropins; it stimulates
CC the secretion of both luteinizing and follicle-stimulating
CC hormones.
CC !- SUBUNIT: Homodimer; disulfide-linked.
CC !- SUBCELLULAR LOCATION: Secreted.
CC !- TISSUE SPECIFICITY: GnRH NEURONS LIE WITHIN BLOOD SINUSES CLOSE TO
CC THE GONADUCTS AND GONADS IN BOTH JUVENILES AND ADULTS, IMPLYING
CC THAT THE NEUROPEPTIDE IS RELEASED INTO THE BLOODSTREAM.
CC !- MASS SPECTROMETRY: MW=1117.52; METHOD=WALDI.
CC !- SIMILARITY: Belongs to the GnRH family.
DR InterPro; IPR002012; GnRH.
DR PROSITE; PS00473; GnRH; 1.
KW Hormone; Amidation; Pyroglutamate carboxylic acid.
FT MOD RES 1 1 PYROGLUTAMATE CARBOXYLIC ACID.
FT DISULFID 6 6 INTERCHAIN.
FT MOD RES 10 10 AMIDATION (BY SIMILARITY).
SQ SEQUENCE 10 AA; 1135 MW; 284B38D1EBE735A3 CRC64;

Query Match 42.1%; Score 16; DB 1; Length 10;
Best Local Similarity 40.0%; Pred. No. 1.3e+03; Mismatches 2; Conservative 0; Indels 0; Gaps 0;
Matches 2;

Qy 1 WXXW 5
Db 3 WSLCH 7

RESULT 8
GRP_RANRI STANDARD; PRT; 10 AA.
ID MEDLINE=91315477; PubMed=1859413;
AC P23260;
DT 01-NOV-1991 (Rel. 20, Created)
DT 01-NOV-1991 (Rel. 20, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Neuromedin C.
OS Rana ridibunda (laughing frog) (Marsh frog).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Neobatrachia; Ranioidea; Ranidae; Rana.
OX NCBI_TaxID=8406;
RN [1]
RP SEQUENCE.
RC TISSUE=Brain;
RX MEDLINE=91315477; PubMed=1859413;
RA Conlon J.M., O'Harte F., Vaudry H.;
RT "Primary structures of the bombesin-like neuropeptides in frog brain
RT show that bombesin is not the amphibian gastrin-releasing peptide.";
RL Biochem. Biophys. Res. Commun. 178:526-530(1991).
CC !- SUBCELLULAR LOCATION: Secreted.
CC !- SIMILARITY: BELONGS TO THE BOMBESIN/NEUROMEDIN B/RANATENSIN
CC FAMILY.
DR InterPro; IPR000874; Bombesin.
DR Pfam; PF02044; Bombesin; 1.
DR PROSITE; PS00257; BOMBESIN; 1.
KW Bombesin family; Amidation.
FT MOD RES 10 10 AMIDATION.
SQ SEQUENCE 10 AA; 1094 MW; F81FBA862CDC371 CRC64;

Query Match 42.1%; Score 16; DB 1; Length 10;
Best Local Similarity 40.0%; Pred. No. 1.3e+03; Mismatches 2; Conservative 0; Indels 0; Gaps 0;
Matches 2;

Qy 1 WXXW 5
Db 4 WAVGH 8

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RESULT 9

ALYT_	ALYOB	STANDARD;	PR1;	14 AA.
ID	ALYT_	ALYOB	STANDARD;	PR1;
AC	P08944;			
DT	01-NOV-1988 (Rel. 09, Created)			
DT	01-FEB-1994 (Rel. 28, Last sequence update)			
DT	15-SEP-2003 (Rel. 42, Last annotation update)			
DE	Alytesin.			
OS	Alytes obstetricans (Midwife toad).			
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
OC	Amphibia; Batrachia; Anura; Archeobatrachia; Discoglossidae; Alytes.			
NCBI_TaxID=8443;	[1]			
RN	RP	SEQUENCE		
RC	TISSUE=Skin secretion;			
RA	MEDLINE=84131098; PubMed=6141890;			
RA	Erspaner V., Erspaner G.F., Mazzanti G., Endean R.;			
RT	"Active peptides in the skins of one hundred amphibian species from			
RT	Australia and Papua New Guinea."			
RL	Comp. Biochem. Physiol. 77C:99-108(1984).			
CC	- - SUBCELLULAR LOCATION: Secreted.			
CC	- - TISSUE SPECIFICITY: Skin.			
CC	- - FAMILY: BELONGS TO THE BOMBESIN/NEUROMEDIN B/RANATENSIN			
CC	CC			
DR	InterPro: IPR000874; Bombesin.			
DR	Pfam: PF02044; Bombesin; 1.			
DR	PROSITE; PS00257; BOMBESIN; 1.			
KW	Amphibian defense peptide; Bombesin family; Amidation;			
KW	Pyroglutamate carboxylic acid.			
FT	MOD RES 1 1			
FT	MOD RES 14 14			
FT	SEQUENCE 14 AA; 1554 MW; D3C4E4D3AF129666 CRC64;			
QY	Query Match 42.1%; Score 16; DB 1; Length 14;			
DB	Best Local Similarity 40.0%; Pred. No. 1.7e+03;			
DB	Matches 2; Conservative 0; Mismatches 3; Indels 0; Gaps 0;			
DB	1 WXXWH 5			
DB	8 WAVGH 12			
RESULT 10				
RM12_	YEAST	STANDARD;	PR1;	15 AA.
ID	YEAST	STANDARD;	PR1;	15 AA.
AC	P36522;			
DT	01-JUN-1994 (Rel. 29, Created)			
DT	01-JUN-1994 (Rel. 29, Last sequence update)			
DT	01-JUN-1994 (Rel. 29, Last annotation update)			
DE	Mitochondrial 60S ribosomal protein L12 (YmL12) (Fragment).			
GN	MRPL12.			
OS	Saccharomycetes cerevisiae (Baker's yeast).			
OC	Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes;			
OC	Saccharomycetales; Saccharomycetaceae; Saccharomycetes.			
NCBI_TaxID=4932;	[1]			
RN	RP	SEQUENCE		
RC	MEDLINE=91285106; PubMed=2060626;			
RA	Grohmann L., Graack H.-R., Kruft V., Goldschmidt-Reisin S.,			
RA	KitaKawa M.;			
RT	"extended N-terminal sequencing of proteins of the large ribosomal			
RT	subunit from yeast mitochondria."			
RL	FEBS Lett. 284:51-56(1991).			
SGD; L0002687; MRPL12.				
KW	Ribosomal protein; Mitochondrion.			
FT	NON TER 15 15			
FT	SEQUENCE 15 AA; 1851 MW; 74BCD9FEDDDDB3900 CRC64;			
QY	Query Match 39.5%; Score 15; DB 1; Length 15;			
DB	Best Local Similarity 50.0%; Pred. No. 2.7e+03;			
DB	Matches 3; Conservative 1; Mismatches 2; Indels 0; Gaps 0;			

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FT MOD RES 4 4 SULFATION.
FT MOD RES 11 11 AMIDATION.
SQ SEQUENCE 11 AA; 1328 MW; 10DAB894EDD861BB CRC64;

Query Match 36.8%; Score 14; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 3e+03;
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 HF 6
Db 8 HF 9

RESULT 13
CA42 LITCI
ID CA42 LITCI STANDARD; PRT; 11 AA.
AC P82092;
DT 16-OCT-2001 (Rel. 40, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 15-SEP-2003 (Rel. 42, Last annotation update)
DE Caerulein 4.2/4.2Y4.
OS Litoria citropa (Australian blue mountains tree frog).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Neobatrachia; Bufonoidea; Hylidae;
OC Pelodyadinae; Litoria.
OX NCBI_TaxID=94770;
RN [1]
RP SEQUENCE, AND MASS SPECTROMETRY.
RC TISSUE=Skin secretion;
RX MEDLINE=20057701; PubMed=10589099;
RA Wabnitz P.A., Bowie J.H., Tyler M.J.;
RT "Caerulein-like peptides from the skin glands of the Australian blue
RT mountains tree frog Litoria citropa. Part 1. Sequence determination
RT using electrospray mass spectrometry."
RL Rapid Commun. Mass Spectrom. 13:2498-2502(1999).
CC -!- FUNCTION: HYPOTENSIVE NEUROPEPTIDE (PROBABLE).
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- TISSUE SPECIFICITY: Skin dorsal glands.
CC -!- PTM: Isoform 4.2Y4 differs from isoform 4.2 in not being
CC sulfated.
CC -!- MASS SPECTROMETRY: MW=1404; METHOD=Electrospray.
CC -!- SIMILARITY: BELONGS TO THE GASTRIN/CHOLECYSTOKININ FAMILY.
DR InterPro; IPR001651; Gastrin.
DR PROSITE; PS00259; GASTRIN; FALSE NEG.
KW Amphibian defense peptide; Hypotensive agent; Amidation; Sulfation;
KW Pyrrolidone carboxylic acid.
FT MOD RES 1 1 PYRROLIDONE CARBOXYLIC ACID.
FT MOD RES 4 4 SULFATION.
FT MOD RES 11 11 AMIDATION.
SQ SEQUENCE 11 AA; 1344 MW; 10DAB894F5B861BB CRC64;

Query Match 36.8%; Score 14; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 3e+03;
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 HF 6
Db 8 HF 9

RESULT 14
MLG THETS
ID MLG THETS STANDARD; PRT; 11 AA.
AC P41399;
DT 01-NOV-1995 (Rel. 32, Created)
DT 01-NOV-1995 (Rel. 32, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Melanotropin gamma (Gamma-melanocyte stimulating hormone) (Gamma-MSH).
OS Theromyzon tessulatum (Leech).
OC Eukaryota; Metazoa; Annelida; Clitellata; Hirudinida; Hirudinea;
OC Rhynchobdellida; Glossiphoniidae; Theromyzon.
OX NCBI_TaxID=13286;
RN [1]
RP SEQUENCE.
RC TISSUE=Brain;
RX MEDLINE=94298944; PubMed=8026574;
RA Salzet M., Watter C., Bulet P., Malecha J.;
RT "Isolation and structural characterization of a novel peptide related
RT to gamma-melanocyte stimulating hormone from the brain of the leech
RT Theromyzon tessulatum."
RL FEBS Lett. 348:102-106(1994).
CC -!- SIMILARITY: BELONGS TO THE POMC FAMILY.
DR PIR; S45698; S45698.
KW Hormone; Amidation.
FT MOD RES 11 11 AMIDATION.
SQ SEQUENCE 11 AA; 1486 MW; 2DB8FACE6409C1E8 CRC64;

Query Match 36.8%; Score 14; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 3e+03;
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 HF 6
Db 5 HF 6

RESULT 15
CX2 CONGE
ID CX2 CONGE STANDARD; PRT; 13 AA.
AC P01520;
DT 21-JUL-1986 (Rel. 01, Created)
DT 21-JUL-1986 (Rel. 01, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Alpha-conotoxin GII.
OS Conus geographus (Geography cone).
OC Eukaryota; Metazoa; Mollusca; Gastropoda; Orthogastropoda;
OC Apogastropoda; Caenogastropoda; Sorbeoconcha; Hypsogastropoda;
OC Neogastropoda; Conoidea; Conidae; Conus.
OX NCBI_TaxID=6491;
RN [1]
RP SEQUENCE.
RX MEDLINE=81191854; PubMed=7014556;
RA Gray W.R., Luque A., Olivera B.M., Barrett J., Cruz L.J.;
RT "Peptide toxins from Conus geographus venom."
RL J. Biol. Chem. 256:4734-4740(1981).
RN [2]
RP DISULFIDE BONDS.
RX MEDLINE=84280842; PubMed=6466616;
RA Gray W.R., Luque F.A., Galyean R., Atherton E., Sheppard R.C.,
RA Stone B.L., Reyes A., Alford J., McIntosh M., Olivera B.M.,
RA Cruz L.J., Rivier J.;
RT "Conotoxin GI: disulfide bridges, synthesis, and preparation of
RT iodinated derivatives."
RL Biochemistry 23:2796-2802(1984).
CC -!- FUNCTION: Alpha-conotoxins act on postsynaptic membranes, they
CC bind to the nicotinic acetylcholine receptors (nAChR) and thus
CC inhibit them.
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- TISSUE SPECIFICITY: Expressed by the venom duct.
CC -!- SIMILARITY: BELONGS TO THE A-SUPERFAMILY OF CONOTOXINS. ALPHA-TYPE
CC FAMILY.
DR PIR; A01783; NTKN2G.
DR HSPF; P56973; 1B45.
KW Postsynaptic neurotoxin; Neurotoxin; Toxin;
KW Acetylcholine receptor inhibitor; Amidation.
FT DISULFID 2 7
FT DISULFID 3 13
FT MOD RES 13 13 AMIDATION.
SQ SEQUENCE 13 AA; 1422 MW; DEE831C39297EBD CRC64;

Query Match 36.8%; Score 14; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 3.4e+03;
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 HF 6
Db 11

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Db 10 HF 11

Search completed: December 3, 2003, 11:51:52
Job time : 8.33333 secs